C8850-1
12/14/88

TEXTILE ORGANON

Volume 59, No. 11 ☐ November 1988

A publication of *Textile Economics Bureau Inc.*

Highlights

- 1988 Directory of American Fiber Manufacturers... begins on page 239.
- Third Quarter 1988 Production, Shipments and Ending Stocks... begins on page 252.

SHIPMENTS:

Total man-made fiber shipments in October were 808 million pounds, or 5% more than the 771 million pounds shipped in the previous month. Cellulosic fiber shipments at 53 million pounds were 2% above September's level and noncellulosic fiber shipments at 755 million pounds were ahead 5%.

For the year to date, total shipments at 7,582 million pounds were 114 million pounds or 2% above the 1987 period.

The products showing the largest gains over September are polyester staple up 25 million pounds, and polyester textile yarn and nylon staple each up 8 million pounds. Declines were shown by olefin yarn down 6 million pounds and acrylic staple down 3 million pounds.

TABLE 1:
TOTAL U.S. MAN-MADE FIBER SHIPMENTS
MILLION POUNDS & *PERCENT CHANGE*

ITEM	1988 OCT	1988 SEP	% CHG 10-88/9-88	1987 OCT	% CHG 10-88/10-87	YEAR TO DATE 1988	YEAR TO DATE 1987	% CHG YTD 1988/1987
CELLULOSIC								
YARN	18.6	18.1	*+2.8*	17.1	*+8.8*	179.7	157.1	*+14.4*
RAYON STAPLE	34.8	34.3	*+1.5*	36.5	*-4.7*	349.4	346.1	*+1.0*
TOTAL CELLULOSIC	**53.4**	**52.4**	***+1.9***	**53.6**	***-0.4***	**529.1**	**503.2**	***+5.1***
NONCELLULOSIC								
YARN+MONOFILAMENT								
NYLON - INDUSTRIAL	29.9	29.2	*+2.4*	31.7	*-5.7*	310.1	312.7	*-0.8*
- CARPET	87.8	87.1	*+0.8*	78.1	*+12.4*	817.8	804.3	*+1.7*
- TEXTILE[a]	32.9	32.0	*+2.8*	30.1	*+9.3*	316.2	316.5	*-0.1*
POLYESTER - INDUSTRIAL	31.4	29.5	*+6.4*	30.3	*+3.6*	298.7	282.9	*+5.6*
- TEXTILE[a]	77.5	69.1	*+12.2*	70.9	*+9.3*	699.2	701.7	*-0.4*
OLEFIN	99.6	105.1	*-5.2*	99.7	*-0.1*	1002.7	936.7	*+7.0*
TOTAL YARN	**359.1**	**352.0**	***+2.0***	**340.8**	***+5.4***	**3444.7**	**3354.8**	***+2.7***
STAPLE+TOW+FIBERFILL								
NYLON	89.6	81.3	*+10.2*	88.4	*+1.4*	808.0	848.0	*-4.7*
ACRYLIC+MODACRYLIC	48.8	51.8	*-5.8*	51.4	*-5.1*	491.0	498.9	*-1.6*
POLYESTER	228.3	203.1	*+12.4*	205.3	*+11.2*	2007.7	1960.6	*+2.4*
OLEFIN	29.0	30.2	*-4.0*	31.3	*-7.3*	301.0	302.2	*-0.4*
TOTAL STAPLE	**395.7**	**366.4**	***+8.0***	**376.4**	***+5.1***	**3607.7**	**3609.7**	***-0.1***
TOTAL NONCELLULOSIC	**754.8**	**718.4**	***+5.1***	**717.2**	***+5.2***	**7052.4**	**6964.5**	***+1.3***
TOTAL MAN-MADE FIBER	**808.2**	**770.8**	***+4.9***	**770.8**	***+4.9***	**7581.5**	**7467.7**	***+1.5***
TOTAL SHIPMENTS DIVIDED AS -								
DOMESTIC SHIPMENTS[b]	752.0	716.9	*+4.9*	722.6	*+4.1*	7082.3	7008.1	*+1.1*
EXPORTS[c]	56.2	53.9	*+4.3*	48.2	*+16.6*	499.2	459.6	*+8.6*

a. Includes low denier industrial yarn.
b. Includes olefin exports.
c. Excludes olefin exports.

Textile Organon

A Monthly Review

NOVEMBER 1988

CONTENTS

Features

1988 Directory of American Fiber Manufacturers 239 - 248
- Notes & Definitions 239
- Cellulosic/Noncellulosic Producers 240
- Olefin Producers 242
- Glass Fiber Producers 246
- Producing Plant Locations 248

Industry Regulars

Total U.S. Man-Made Fiber Shipments 237

Monthly U.S. Man-Made Fiber Data 249 - 251
- Imports by Country of Origin 249
- Imports by Fiber 250
- Exports by Fiber 251

Quarterly Man-Made Fiber Data 252 - 253
- Yarn+Monofilaments 252
- Staple+Tow 253

Selected U.S. Monthly Fiber Data 254

TEXTILE ECONOMICS BUREAU, INC.
President
Rosemarie D. Frick

Editor, Textile Organon
David S. Morey

Publishing Headquarters:
Textile Economics Bureau, Inc.
101 Eisenhower Parkway
Roseland, NJ 07068
U.S.A.
Telephone: (201) 228-1107
Facsimile: (201) 228-7598

ISSN 0040-5132

Copyright © 1988
Textile Economics Bureau, Inc.

TEXTILE ORGANON is published monthly. All rights reserved. This booklet may be reproduced in part if credit is given.

Subscription Rates
(payable in U.S. dollars with order):

ITEM	U.S.A.	OTHER
Annually (1 year only)	160.00	230.00
Schools & Nonprofit	60.00	85.00
Single Issues:		
June	60.00	90.00
September	60.00	90.00
All Others	30.00	50.00

Issues are sent by 1st class mail to U.S. subscribers and by airmail to foreign subscribers.

New Subscription Rates - Effective January 1, 1989
(payable in U.S. dollars with order):

ITEM	U.S.A.	OTHER
Annually (1 year only)	175.00	250.00
Schools & Nonprofit	75.00	125.00
Single Issues:		
June	100.00	150.00
September	60.00	90.00
All Others	30.00	50.00

1988 DIRECTORY OF AMERICAN FIBER MANUFACTURERS

NOTES & DEFINITIONS

This directory of producers is divided into the following categories:

(1) Cellulosic and Noncellulosic Fibers
(2) Olefin Fiber
(3) Glass Fiber

The locality shown represents a plant site. Unless shown separately, the Head Sales Office address is the same as the Executive Office address.

The generic fiber names used in this survey are those established by the U.S. Federal Trade Commission (FTC). The *italicized* words are trademarks. All other fiber names are generic and appear in regular type.

o Indicates a company producing olefin fiber as well as other man-made fiber(s). For example, Ametek produces olefin fiber (page 240) as well as nylon, polyester and saran.

* Indicates a new plant, in the planning stage or under construction, or a new facility for producing a new product at an existing plant. Such facilities are not expected to be operable before 1989.

Yarn means filament yarn.
Monofil means an extruded monofilament and may be either a round or a rectangular (ribbon) cross-section. Monofilaments for bristles are excluded.
Film includes **Slit:** tape produced by slitting an already-attenuated wide sheet of olefin film; and **Split:** fibrillated slit film.
Not included in this survey is the slit film used for decorative or tying ribbon and such.
Rope includes braided and twisted rope as well as filler or core fiber.
Cordage is under 3/16" and includes tying and harvest (baler and binder) twine.
Industrial Goods means bags, bale wrap and protective covers, agricultural cloth, tarps and pool covers, etc.
Captive means that most or all of the fiber produced is consumed by the company in a vertical operation.

GENERIC NAMES

The following are generic names, in **bold** type, and a brief description of the fibers covered by each name shown in regular type.

GLASS FIBER

This fiber is made in two primary forms: continuous strand and staple sliver. Continuous strand is drawn fiber (i.e., from a textile-type bushing), while staple sliver, which is produced in relatively small amounts, is a blown fiber. Glass fiber thus ***does not*** include the substantial quantities of blown glass wool and pack, e.g., mat for air & liquid filtration, acoustical & thermal insulation, battery mats & separators and underground pipe wrap (except reinforcing).

Yarn & Strand: Continuous filament yarn and strand packaged for sale as such. Includes the yarn and strand used in the manufacture of nonwoven scrim for sale as such.
Roving: Two or more ends of untwisted strand. Includes spun strand roving (a single, continuous strand looped back on itself to give the equivalent of two or more strands) and roving for making woven roving
Mat: Mat in any nonwoven form as made from a continuous filament, i.e., continuous strand mat (filaments bonded with a suitable binder to form a membrane) and chopped strand mat (1/2" to 3" strands deposited in a random manner and resin bonded).
Chopped: Chopped yarn, strand or roving (1/4" to 3-3/4" length).
Milled: Hammer-milled yarn, strand or roving (1/32" to 1/4" length).
Staple Yarn & Sliver: A blown fiber, as noted, and means ribbons of generally parallel glass staple (3" to 15" random lengths) with or without a filament yarn reinforcement, with or without a binder, and slightly condensed to an approximately uniform cross section.

CELLULOSIC (ARTIFICIAL) FIBERS

Acetate: Cellulosic acetate. Cigarette filtration tow is excluded.
Triacetate: Cellulose acetate, wherein not less than 92% of the hydroxyl groups are acetylated.
Rayon: Regenerated cellulose, including substitutions for not more than 15% of the hydrogens of the hydroxyl groups. Includes high wet modulus fiber.
Cupra: Cuprammonium rayon.
The viscose rayon yarns are identified as **Ind** (industrial or high tenacity yarn) and **reg** (regular or textile yarn).

NONCELLULOSIC (SYNTHETIC) FIBERS

Acrylic: At least 85% acrylonitrile by weight.
Modacrylic: 35% to 84% acrylonitrile by weight, except when it qualifies as rubber.
Nylon: A long-chain synthetic polyamide in which less than 85% of the amide linkages are attached directly to two aromatic rings. The types are identified as 6, 66, etc. Where a company produces both type 6 and type 66, the designation 6/66 is used.
Aramid: A long-chain synthetic polyamide in which at least 85% of the amide linkages are attached directly to two aromatic rings.
Olefin: At least 85% ethylene, propylene or other olefin units by weight, except amorphous (noncrystalline) polyolefins qualifying as rubber. **E** means Polyethylene and **P** means Polypropylene. Also see adjoining notes on olefin fiber.
PBI: A long chain having recurring imidazole groups.
Polyester: At least 85% by weight of an ester of a substituted aromatic carboxylic acid, including but not restricted to substituted terephthalic units, and parasubstituted hydroxybenzoate units.
Saran: At least 80% vinylidene chloride by weight.
Spandex: At least 85% of segmented polyurethane.
Vinyon: At least 85% vinyl chloride by weight.

Other man-made fibers included in this survey, but not listed by the FTC, are Polycarbonate and **TFE-** & **FEP-**fluorocarbon.

Not covered in this survey are fibers which would fall under the FTC's generic designations of rubber, lastrile, metallic and novoloid. Fibers falling under the FTC designations of anidex, azelon and nytril are not produced in the United States.

Carbon fibers are not included in this survey.

ALBANY INTERNATIONAL-MONOFILAMENT PLANT ●

EXECUTIVE OFFICE: 156 South Main Street, Homer, NY 13077

Fluoro	Homer, NY *Halar, Kynar, Teflon, Tefzel* (monofil)
Nylon 6/66/612	Homer (monofil)
Polyester	Homer (monofil-regular & hydrolysis-resistant)

ALLIED-SIGNAL INC. ENGINEERED MATERIALS SECTOR, FIBERS DIVISION ●

EXECUTIVE OFFICE: 1411 Broadway, New York, NY 10018
REGIONAL SALES: 400 North Tustin Avenue, Santa Ana, CA 92705
2100 Fiber Park Drive, Dalton, GA 30720
64 South Miller Road, Akron, OH 44313

Nylon 6	Columbia, SC & Hopewell, VA *A.C.E., Anso, Anso-Tex, Anso IV HP, Anso V Worry Free, Anso X, Caplana, Caprolan, Caprolan 2000 Sea Gard, Caprolan 2000 Stay Gard, Capima, Captiva, Compet, Creme De Captiva, Hydrofil, Iron Clad, Patina, Sea Gard, TEC* (yarn, monofil & staple)
Polyester	Moncure, NC *A.C.E., A.C.E. Sea Gard, Compet, Stay Gard* (yarn & monofil)

AMERICAN CYANAMID COMPANY, FIBERS DIVISION

EXECUTIVE OFFICE: One Cyanamid Plaza, Wayne, NJ 07470
REGIONAL SALES: 350 Fifth Avenue, Suite 2602, New York, NY 10118
P.O. Box 32787, Charlotte, NC 28232

Acrylic	Milton, FL *Creslan* (staple & tow)

AMERICAN POLYCRAFT, INC. ●

EXECUTIVE OFFICE: P.O. Box 3603, Dalton, GA 30721

Nylon 6	Dalton, GA (yarn)

AMETEK INC., SPECIAL FILAMENTS DIVISION ●

EXECUTIVE OFFICE: Box 339, Odenton, MD 21113

Nylon 6/66/612/11	Odenton, MD (monofil)
Polyester	Odenton (monofil)
Saran	Odenton (monofil)

AVTEX FIBERS INC. ●

EXECUTIVE OFFICE: Bldg. 200, Berwyn Park, Cassatt Road, P.O. Box 880, Valley Forge, PA 19482
SALES OFFICE: 1185 Avenue of the Americas, New York, NY 10036
REGIONAL SALES: 1 Fairview Plaza, 5950 Fairview Road, Suite 501, Charlotte, NC 28210

Polyester	Lewistown, PA *Avlin* (yarn)
Rayon	Front Royal, VA *Aviloc, Avril, Avril II, Avril III, Avril Prima, Fibers 40 & 43* (ind yarn & staple)

BASF CORPORATION FIBERS DIVISION

EXECUTIVE OFFICE: P.O. Drawer D, Williamsburg, VA 23187
REGIONAL SALES: 5505 East Carson Street, Suite 205, Lakewood, CA 90713
500 Holiday Avenue, Dalton, GA 30720
111 West 40th Street, New York, NY 10018
Four Seasons Executive Center, 3A Terrace Way, Greensboro, NC 27403

Acrylic	Williamsburg, VA *Zefkrome, Zefran* (staple)
Nylon 6	Enka, NC; Anderson & Central, SC & Lowland, TN *Crepeset, Shimmereen, Vivana, Zefsport, Zeftron, Zeftron 500, Zeftron 500 ZX* (yarn & staple)
Polyester	Lowland, TN *Golden Glow, Golden Touch, Silky Touch, Strialine, Ultra Touch* (yarn)
Rayon	Lowland, TN *Zantrel, Zantrel Plus* (staple)

BASF Corporation has carpet yarn spinning plants at Allendale, SC and Sylvania, GA.

BEAULIEU OF AMERICA, INC. ●

EXECUTIVE OFFICE: P.O. Box 4539, Dalton, Ga 30721

Nylon 6	Bridgeport, AL (yarn)

BERKLEY & CO. INC. ●

EXECUTIVE OFFICE: Highways 9 & 71, Spirit Lake, IA 51360

Nylon 6	Spirit Lake, IA (monofil)

CAMAC CORPORATION

EXECUTIVE OFFICE: P.O. Box 1004, Bristol, VA 24203

Nylon 6	Bristol, VA *Camalon* (yarn)

COLOR-FI, INC.

EXECUTIVE OFFICE: P.O. Box 469, Edgefield, SC 29824

Nylon	Sumter & Trenton, SC (staple & tow)
Polyester	Sumter & Trenton (staple)

CONCORDE FIBERS, INC. ●

EXECUTIVE OFFICE: P.O. Box 200, Highway 45, Jamestown, SC 29453

Nylon 6	Jamestown, SC (yarn)

CORTLAND LINE COMPANY, INC.

EXECUTIVE OFFICE: 3736 Kellogg Road, Cortland, NY 13045

Nylon 6	Cortland, NY (monofil-captive)

COURTAULDS FIBERS INC.

EXECUTIVE OFFICE: 104 West 40th Street, New York, NY 10018
REGIONAL SALES: P.O. Box 2648, Mobile, AL 36652

Rayon	Le Moyne, Mobile County, AL *Fibro* (staple)

DORSETT CARPET MILLS INC. ●

EXECUTIVE OFFICE: P.O. Box 740, Chatsworth, GA 30705

Nylon 6	Chatsworth, GA (yarn)

E. I. DU PONT DE NEMOURS & COMPANY (INC.) ●

FIBERS DEPARTMENT ●

EXECUTIVE OFFICE: Wilmington, DE 19880

REGIONAL SALES: 5500 Union Pacific Avenue, City of Commerce, CA 90022
1251 Avenue of the Americas, New York, NY 10020
6250 Fairview Road, Charlotte, NC 28234
2770 West Market Street, Akron, OH 44313
300 Franklin Bldg., Eastgate Center, Chattanooga, TN 37411

Acrylic	Camden, SC & Waynesboro, VA *Orlon* (staple & tow)
Aramid	Richmond, VA *Kevlar* (yarn), *Nomex* (yarn, staple & tow)
Nylon 66	Seaford, DE; Camden, SC; Chattanooga, TN & Martinsville, Richmond & Waynesboro, VA (yarn, monofil, staple & tow)
Polyester	Kinston & Wilmington, NC; Camden & Charleston, SC *Dacron,* (yarn, staple, tow & fiberfill), *Sontara* (spunlaced)
Spandex	Waynesboro *Lycra* (fused multifil or coalesced monofil)

POLYMER PRODUCTS DEPARTMENT

EXECUTIVE OFFICE: See Listing Above.

Nylon 6/66/612 & Polyester	Parkersburg, WV *Dacron, Dymetrol, Tynex & Vylor* (monofil of 50 denier & coarser)

EASTMAN KODAK COMPANY

EASTMAN CHEMICALS DIVISION

EXECUTIVE OFFICE: Kingsport, TN 37662

MARKETER: EASTMAN CHEMICAL PRODUCTS, INC., P.O. Box 431, Kingsport, TN 37662

REGIONAL SALES: 1133 Avenue of the Americas, New York, NY 10036

Acetate	Kingsport, TN *Chromspun, Estron* (yarn)
Polyester	Kingsport, TN & Columbia, SC *Kodel* (staple)

FIBER INDUSTRIES

EXECUTIVE OFFICE: 5146 Parkway Plaza Blvd., Charlotte, NC 28217

SALES OFFICE: 1133 Avenue of the Americas, New York, NY 10036

REGIONAL SALES: 4040 Summit Drive, Marietta, GA 30068

Polyester	Fayetteville, NC & Darlington, SC Fortrel (yarn & staple)

FIRESTONE FIBERS & TEXTILES COMPANY

DIVISION OF FIRESTONE TIRE & RUBBER COMPANY

EXECUTIVE OFFICE: P.O. Box 1278, Gastonia, NC 28052

Polyester	Hopewell, VA (yarn)

FOSS MANUFACTURING COMPANY, INC. ●

EXECUTIVE OFFICE: Ward Hill Industrial Park, Haverhill, MA 01830

PLANT OFFICE: Haverhill, MA 01830

Polyester	Haverhill, MA (staple-captive)

GLOBE MANUFACTURING CO.

EXECUTIVE OFFICE: 456 Bedford Street, Fall River, MA 02720

Spandex	Fall River, MA & Gastonia, NC *Cleerspan, DC_{-100}, DC_{-700}, Glospan* (fused multifil)

THE GOODYEAR TIRE & RUBBER COMPANY, POLYESTER DIVISION

EXECUTIVE OFFICE: Akron, OH 44316

Polyester	Scottsboro, AL & Point Pleasant, WV (yarn-captive)

GULF FIBERS INC.

EXECUTIVE OFFICE: Falk Industries, Inc., 569 Broadway, New York, NY 10012

Nylon 6	Le Moyne, Mobile County, AL (yarn)

HANOVER FIBERS DIVISION, GUILFORD MILLS INC.

EXECUTIVE OFFICE: 4925 West Market Street, Greensboro, NC 27402

REGIONAL SALES: 200 Dickens Road, P.O. Box 788, Fuquay-Varina, NC 27526

Nylon 6	Gainesville, GA (monofil)
Polyester	Fuquay-Varina, NC (yarn & monofil)

HOECHST CELANESE CORPORATION

EXECUTIVE OFFICE: 202-206 North, Somerville, NJ 08876
1211 Avenue of the Americas, New York, NY 10036

REGIONAL SALES: 110 East 9th Street, Room A 1229, Los Angeles, CA 90079
6000 Lake Forest Drive, Suite 300, Atlanta, GA 30328
P.O. Box 32414, Charlotte, NC 28232
2950 West Market Street, Akron, OH 44313

Acetate	Rock Hill, SC *(Celriver)* & Narrows, VA *(Celco)* (yarn, staple & tow)
Polyester	Salisbury & Shelby, NC & Spartanburg, SC *Angelette, Ceylon, Comfort Fiber, ESP, Loftguard, Polar-Guard, Serene, Superba, Trevira* (yarn, staple, tow & fiberfill)
PBI	Rock Hill (staple)
Vinyon	Rock Hill (staple)

JAMES RIVER CORPORATION ●

EXECUTIVE OFFICE: 545 North Pleasantburg Drive, Greenville, SC 29607

Nylon 6/6	Pensacola, FL & Milford, NJ *Cerex, PBN-11* (spunbonded) (meltblown)
Polyester	Milford (meltblown)

JOHNSON FILAMENTS, INC. ●

Subsidiary of JWI Ltd.

EXECUTIVE OFFICE: Industrial Avenue, Williston, VT 05495

Nylon 6/66	Williston, VT (monofil)
Polyester	Williston (monofil)

KAYSER-ROTH HOSIERY INC., YARN MANUFACTURING DIVISION

EXECUTIVE OFFICE: 2303 West Meadowview Road, Greensboro, NC 27407

Nylon 66	Creedmoor, NC (yarn-captive)

MONOFILAMENTS, INC.

EXECUTIVE OFFICE: 1401 Hopeman Parkway, Waynesboro, VA 22980

Nylon 6/66	Waynesboro, VA (monofil)
Polycarbonate	Waynesboro (monofil)
Polyester	Waynesboro (monofil)

*The company also produces fusible nylon (monofil) at its Waynesboro facility.

MONSANTO COMPANY

EXECUTIVE OFFICE: 800 North Lindbergh Blvd., St. Louis, MO 63167

MONSANTO CHEMICAL COMPANY, FIBERS & ENGINEERED PRODUCTS DIVISION

REGIONAL SALES: 24012 Calle de la Plata, Suite 250, Laguna Hills, CA 92653
320 Interstate North Parkway, Atlanta, GA 30339
Merchandise Mart, 222 North Bank Drive, Chicago, IL 60654
1460 Broadway, 11th Floor, New York, NY 10036
6230 Fairview Road, Charlotte, NC 28210
260 Springside Drive, P.O. Box 5444, Akron, OH 44313

Acrylic	Decatur, AL *Acrilan, Acrilan II, Bi-Loft, CY-FANA, Fi-Lana II, Pa-Qel, So-Lara, So-Qel* (staple & tow)
Modacrylic	Decatur *SEF, SEF Plus* (staple & tow)
Nylon 66	Pensacola, FL & Greenwood, SC *No-Shock, Ultron* (yarn & staple)

NORTH AMERICAN POLYESTER CORPORATION

Subsidiary of North American Rayon Corporation

EXECUTIVE OFFICE: West Elk Avenue, Elizabethton, TN 37643

Polyester	Elizabethton, TN (staple)

NORTH AMERICAN RAYON CORPORATION

EXECUTIVE OFFICE: West Elk Avenue, Elizabethton, TN 37643
REGIONAL SALES: 500 Fifth Avenue, New York, NY 10110

Rayon	Elizabethton, TN (ind & reg yarn & tow)

REEMAY, INC. ●

EXECUTIVE OFFICE: P.O. Box 511, Old Hickory, TN 37138

Polyester	Old Hickory, TN *Reemay* (spunbonded)

SHAKESPEARE COMPAN MONOFILAMENT DIVISION ●

SALES OFFICE: 6111 Shakespear Road, P.O. Box 4060, Columbia, SC 29240

Nylon 6/66/610	Columbia, SC (monofil & monofil thread)
Polyester	Columbia (monofil & monofil thread)

STAR FIBERS, INC.

EXECUTIVE OFFICE: 136 Fuller Road, Albany, NY 12205
REGIONAL SALES: Edgefield, SC 29824

Nylon 6/66	Edgefield, SC *Starbrite* (staple)

SUNSHINE ROPE MANUFACTURING INC. ●

EXECUTIVE OFFICE: 7250-7270 N.W. 41st Street, Miami, FL 33166

Nylon 6	Miami, FL *Sunylon* (yarn & cordage)

TOLARAM FIBERS, INC. ●

EXECUTIVE OFFICE: P.O. Box 436, Highway 52 North, Ansonville, NC 28007-0436

Nylon 66	Ansonville NC (yarn)
Polyester	Ansonville & Asheboro, NC (yarn)

WELLMAN, INC., MAN-MADE FIBER DIVISION

EXECUTIVE OFFICE: P.O. Box 188, Johnsonville, SC 29555
67 Walnut Avenue, Suite 308, Clark, NJ 07066
REGIONAL SALES: 1200 East Morehead Street, Charlotte, NC 28204
25 Braintree Hill Park, Suite 206, Braintree, MA 02184

Nylon 6/66	Johnsonville, SC *Wellon, Wellstrand* (staple, tow & tops)
Polyester	Johnsonville *Fillwell, Wellene, Wellstrand* (staple & tow)

YKK ZIPPER CO.

Polyester	Macon, GA (yarn)

OLEFIN FIBER

ACS INDUSTRIES, INC.

EXECUTIVE OFFICE: 71 Villanova Street, Woonsocket, RI 02895
PLANT: Woonsocket, RI (P yarn)

ALADDIN MILLS, INC.

EXECUTIVE OFFICE: P.O. Box 2208, Dalton, GA 30722
PLANT: Dalton, GA (P yarn)

ALBANY INTERNATIONAL - MONOFILAMENT PLANT

EXECUTIVE OFFICE: See Listing on Page 240.
PLANT: Homer, NY (P monofil)

ALLIED-SIGNAL INC. ENGINEERED MATERIALS SECTOR, FIBERS DIVISION

EXECUTIVE OFFICE: See Listing on Page 240.
PLANT: Chesterfield, VA *Spectra* (E yarn & staple)

AMERICAN MANUFACTURING COMPANY
EXECUTIVE OFFICE: 200 South Park Road, Lafayette, LA 70505
REGIONAL SALES: 107 Trumball Street, Elizabeth, NJ 07206
5854 Hollis Street, Emeryville, CA 94608
1520 Industrial Blvd., Jacksonville, FL 32205
6110 Bienvenue Street, New Orleans, LA 70117
1715 South 11th Street, St. Louis, MO 63104
1350 Kress Street, Houston, TX 77020
5050 First Avenue South, Seattle, WA 98134
LAFAYETTE ROPE DIVISION
PLANT: Lafayette, LA *Amco, American, Bondtie, Floterope* (E & P monofil & film)

AMERICAN POLYCRAFT, INC.
EXECUTIVE OFFICE: See Listing on Page 240.
PLANT: Dalton, GA (P yarn & film)

AMETEK INC., SPECIAL FILAMENTS DIVISION
EXECUTIVE OFFICE: See Listing on Page 240.
PLANT: Odenton, MD (E & P monofil)

AMOCO FABRICS & FIBERS COMPANY
EXECUTIVE OFFICE: 900 Circle 75 Parkway, Suite 550, Atlanta, GA 30339
REGIONAL SALES: 15066 Shoemaker Avenue, Santa Fe Springs, CA 90670
P.O. Box 911, Dalton, GA 30720
P.O. Box 3667, 835 Shugart Rd., Dalton, GA 30720
P.O. Box 466, Hohokus NJ 07423
PLANT: Andalusia & Roanoke, AL; Bainbridge, Hazlehurst & Nashville, GA; Salisbury, NC & Afton, VA (P yarn, monofil, film & staple)
The company produces *PolyBac, PolyBac A/S and PolyBac FLW* primary carpet backing; *ActionBac* secondary carpet backing; *Amopave & Propex* industrial fabric; *Condesa* luggage fabric; *Patlon, Patlon Plus, Patlon III, Amoco Olefin & Olefin II, Marquesa Lana & Marquesa Lana/ST* and *Synera* yarn; *Amoweve* wallcoverings; and *Genesis* residential carpet yarn.

ARLIN MFG. CO., INC.
EXECUTIVE OFFICE: 239 Industrial Avenue, Lowell, MA 01853
PLANT: Lowell, MA (P film)

ARMSTRONG WORLD INDUSTRIES, INC.
EXECUTIVE OFFICE: Lancaster, PA 17604
PLANT: Charlotte, NC (P film-captive)
The company weaves carpet backing.

AVTEX FIBERS, INC.
EXECUTIVE OFFICE: See Listing on Page 240.
PLANT: Front Royal, VA (P staple)

BEAULIEU OF AMERICA, INC.
EXECUTIVE OFFICE: See Listing on Page 240.
PLANT: Dalton, GA (P yarn)

BERKLEY & CO. INC.
EXECUTIVE OFFICE: See Listing on Page 240.
PLANT: Spirit Lake, IA (E & P monofil-captive)

BLUE MOUNTAIN INDUSTRIES
EXECUTIVE OFFICE: 20 Blue Mountain Road, Blue Mountain, AL 36201
PLANT: Blue Mountain, AL *Gold Medal, Poly Autotwine, Poly Macramé, Polylasting, TY-EZ Polytape, Tylon, Tytite* (E & P film cordage)

BRIDON CORDAGE INC.
EXECUTIVE OFFICE: 909 16th Street, Albert Lea, MN 56007
PLANT: Albert Lea, MN & Jerome, ID (P film cordage)

BURLINGTON, INC.
EXECUTIVE OFFICE: P.O. Box 21207, Greensboro, NC 27420
PLANT: Greensboro, NC (P yarn)

CALIFORNIA WEBBING INDUSTRIES, INC.
EXECUTIVE OFFICE: 4560 Pacific Blvd., Los Angeles, CA 90058
PLANT: Los Angeles, CA (P yarn)

CHASE PACKAGING CORPORATION
EXECUTIVE OFFICE: 2 Greenwich Plaza, Greenwich, CT 06830
PLANT: Portland, OR (P film industrial goods)

COLUMBIAN ROPE COMPANY
EXECUTIVE OFFICE: P.O. Box 270, Highway 45 North, Guntown, MS 38849
REGIONAL SALES: P.O. Box 270, Highway 45 North, Guntown, MS 38849
PLANT: Guntown, MS *Polypro 6* (E & P monofil & film)

CONCORDE FIBERS, INC.
EXECUTIVE OFFICE: See Listing on Page 240.
PLANT: Jamestown, SC (P yarn)

CROWE ROPE COMPANY
EXECUTIVE OFFICE: Warren, ME 04864
PLANT: Warren, ME *Crowelon* (P monofil & film)

CUMBERLAND MILLS, INC.
EXECUTIVE OFFICE: 1010 North Hamilton Street, Dalton, GA 30720
PLANT: Dalton, GA (P yarn)

CUTLASS CARPET
PLANT: Dalton, GA (P yarn)

DIAMOND MILLS, INC.
EXECUTIVE OFFICE: P.O. Box 46, Eton, GA 30724
PLANT: Eton, GA (P yarn & film)

DORSETT CARPET MILLS, INC.
EXECUTIVE OFFICE: See Listing on Page 241.
PLANT: Chatsworth, GA (P yarn)

E. I. DU PONT DE NEMOURS & COMPANY (INC.)
FIBERS DEPARTMENT
EXECUTIVE OFFICE: See Listing on Page 241.
PLANT: Richmond, VA *Tyvek* (E spunbonded)

ELIZABETH WEBBING MILLS CO., INC.
EXECUTIVE OFFICE: 521 Roosevelt Avenue, Central Falls, RI 02862
PLANT: Central Falls, RI (P yarn & film)

ENSIGN-BICKFORD INDUSTRIES, INC. FILM FIBERS DIVISION
EXECUTIVE OFFICE: 660 Hopmeadow Street, Simsbury, CT 06070
PLANT: Simsbury, CT (P film)

EXXON CHEMICAL AMERICAS, INDUSTRIAL TEXTILES DIVISION
DIVISION HEADQUARTERS: 2550 West Fifth North Street, Summerville, SC 29483-9699
MARKETING OFFICE: 2100 River Edge Parkway, Suite 1025, Atlanta, GA 30328-4654
PLANT: Kingman, KS (P monofil & film cordage)
Summerville, SC (P monofil & film fabrics)
The company also weaves *Baxon* carpet backing and packaging fabrics at Summerville, SC.

FIBERS & FABRICS OF GEORGIA, INC.
Subsidiary of Georgia Synthetics, Inc.
EXECUTIVE OFFICE: P.O. Box 962, Elberton, GA 30635
PLANT: Elberton, GA (P yarns, fibrillated, roll embossed filaments & ribbon yarn)

FIBERS SOUTH, INC.
EXECUTIVE OFFICE: P.O. Box 189, Trussville, AL 35173
PLANT: Trussville, AL *Polystar, Trustite & Tyrite* (P film, monofil, tapes & staple)

FILAMENT FIBER TECHNOLOGY INCORPORATED
EXECUTIVE OFFICE: 571 West Lake Avenue, Bay Head, NJ 08742
PLANT: Salisbury, NC (P yarn)

FNT INDUSTRIES, INC.
EXECUTIVE OFFICE: 927 First Street, Menominee, MI 49858
PLANT: Menominee, MI (E monofil)

FOSS MANUFACTURING CO., INC.
EXECUTIVE OFFICE: See Listing on Page 241.
PLANT: Haverhill, MA (P staple-captive)

GENERAL FIBERS & FABRICS, INC.
EXECUTIVE OFFICE: Orchard Hill Road, La Grange Industrial Park, La Grange, GA 30240
PLANT: La Grange & Soperton, GA (P film)
The company also weaves *Supertuft* carpet backing as well as bagging and woven polypropylene fabrics here.

GEORGIA SYNTHETICS, INC.
EXECUTIVE OFFICE: P.O. Box 962, Elberton, GA 30635
PLANT: Elberton, GA (P film carpet backing)
Also see listing for **Fibers & Fabrics of Georgia, Inc.**

GFF HOLDING COMPANY
(Formerly NSI, Inc.)
ADMINISTRATIVE OFFICE: Box 658, Soperton, GA 30457
PLANT: Soperton, GA (P film-captive)
The company weaves carpet backing here.

HERCULES INCORPORATED
HERCULES ENGINEERED POLYMER COMPANY, FIBERS
EXECUTIVE OFFICE: Hercules Plaza, Wilmington, DE 19894
MARKETING HEADQUARTERS: 3169 Holcomb Bridge Road, Suite 301, Norcross, GA 30071
REGIONAL SALES: 280 Railroad Avenue, Greenwich, CT 06830
2000 Town Center, Suite 1900, Southfield, MI 48075
PLANT: Oxford, GA *Elustra, Herculon, Nouvelle* (P yarn & staple)

THE HOOVEN & ALLISON COMPANY
EXECUTIVE OFFICE: 677 Cincinnati Avenue, Xenia, OH 45385
PLANT: Xenia, OH (P film cordage)

INTEGRATED PRODUCTS, INC.
EXECUTIVE OFFICE: P.O. Box 1791, Rome, GA 30161
PLANT: Rome, GA (P staple)

J & J INDUSTRIES
EXECUTIVE OFFICE: P.O. Box 1287, Dalton, GA 30722
PLANT: Dalton, GA (P yarn)

JAMES RIVER CORPORATION
EXECUTIVE OFFICE: See Listing on Page 241.
PLANT: Washougal, WA & Milford, NJ *Celestra, Fibretex* (P spunbonded) (meltblown)

JOHNSON FILAMENTS
EXECUTIVE OFFICE: See Listing on Page 241.
PLANT: Williston, VT (P monofil)

KIMBERLY-CLARK CORPORATION
EXECUTIVE OFFICE: 1400 Holcomb Bridge Road, Roswell, GA 30076
PLANT: Corinth, MS; Balfour, NC; La Grange, GA & Neenah, WI *Accord, Duraguard, Evolution* (P spunbonded), *Cyclean, Evolution III* (P spunbonded/meltblown laminate)

LAMBETH CORPORATION
EXECUTIVE OFFICE: 627 Tarkiln Hill Road, New Bedford, MA 02745
PLANT: New Bedford, MA *Lambeth* (E & P monofil)

LAWRENCE HOSE COMPANY
A Consolidated Foods Company
SALES OFFICE: P.O. Box 1838, Burlington, NC 27215
PLANT: Burlington, NC (E monofil-captive)

LORETEX
DIVISION OF OIVIND LORENTZEN, INC.
EXECUTIVE OFFICE: 522 Fifth Avenue, New York, NY 10036
REGIONAL SALES: Northeastern Industrial Park, Guilderland Center, NY 12505
PLANT: Guilderland Center, NY (E film-captive)

MIRAFI INC.
Subsidiary of Dominion Textiles
EXECUTIVE OFFICE: P.O. Box 240967, Charlotte, NC 28224
PLANT: Waynesboro, VA (P film-captive)

THE OSTERNECK COMPANY
EXECUTIVE OFFICE: P.O. Box 859, Lumberton, NC 28359
PLANT: Lumberton, NC (P film)
The company weaves carpet backing and industrial goods here.

PHILLIPS FIBERS CORPORATION
Subsidiary of Phillips 66 Company
EXECUTIVE OFFICE: P.O. Box 66, Interstate 85, Greenville, SC 29602
PLANT: Rocky Mount, NC; Seneca & Spartanburg, SC *Alpha, Marvess* (P yarn, staple & tow)
The company also manufactures *Duon, Petromat, Rufon & Supac* nonwoven fabrics at Seneca, SC.

POLYLOOM CORPORATION OF AMERICA
EXECUTIVE OFFICE: 1615 North Broadway, P.O. Box 289, Dayton, TN 37321
PLANT: Dayton, TN *Polyloom* (P split film)

REEMAY, INC.
EXECUTIVE OFFICE: See Listing on Page 242.
PLANT: Old Hickory, TN *Typar* (P spunbonded)

SARLON INDUSTRIES, INC.
EXECUTIVE OFFICE: 775 N.W. 71st Street, Miami, FL 33150
PLANT: Miami, FL (P monofil & film)

SHAKESPEARE MONOFILAMENT DIVISION
EXECUTIVE OFFICE: See Listing on Page 242.
PLANT: Columbia, SC (P monofil)

SHUFORD MILLS, INC.
EXECUTIVE OFFICE: Highland Avenue & 15th Street, N.E., Hickory, NC 28601
PLANT: Hickory, NC (P film, cordage & twine)

SOLUTION FIBERS INC.
EXECUTIVE OFFICE: P.O. Box 447, 110 West McCarter Road, Lafayette, GA 30728
PLANT: Lafayette, GA *Better Body, Luxene* (P yarn)

SOUTHERN WEAVING, INC.
PLANT: Greenville, SC (P yarn)

STEVENS FIBER DIVISION, STEVENS LINEN ASSOC., INC.
EXECUTIVE OFFICE: P.O. Box 220, Webster, MA 01570
PLANT: Dudley, MA (P staple)

SUNSHINE ROPE MANUFACTURING INC.
EXECUTIVE OFFICE: See Listing on Page 242.
PLANT: Miami, FL (E & P monofil, cordage)

SYNTHETIC INDUSTRIES
EXECUTIVE OFFICE: 309 Lafayette Road, Chickamauga, GA 30707
PLANT: Chickamauga & Dalton, GA (P film & staple)

SYNTHETIC INDUSTRIES, FIBRON DIVISION
EXECUTIVE OFFICE: Chickamauga, GA
PLANT: Chattanooga, TN *Fibri-Cord, Fibri-knit, Fibrilawn, Fibrilon* (P film)

TECHLON FIBERS CORPORATION
EXECUTIVE OFFICE: 3359 Blake Drive, Dalton, GA 30720
PLANT: Dalton, GA (P yarn)

TECHNOTRADE
PLANT: Dalton, GA (P yarn)

TOLARAM FIBERS, INC.
EXECUTIVE OFFICE: See Listing on Page 242.
PLANT: Ansonville, NC (P yarn)

TWINE PRODUCTS CORPORATION
EXECUTIVE OFFICE: 201 Dufossat, P.O. Box 15285, New Orleans, LA 70175
PLANT: New Orleans, LA (P film)

UNITED STATES ROPE COMPANY
EXECUTIVE OFFICE: 711 Hamilton Avenue, Menlo Park, CA 94025
PLANT: Menlo Park, CA (P monofil)

WALL INDUSTRIES, INC.
EXECUTIVE OFFICE: P.O. Box 830, Granite Quarry, NC 28072
PLANT: Granite Quarry, NC (E & P monofil rope and cordage)

WALTRICH PLASTIC CORPORATION
EXECUTIVE OFFICE: P.O. Box D, Walthourville, GA 31333
PLANT: Walthourville, GA (P monofil)

WAYN-TEX INC.
EXECUTIVE SALES OFFICE: Box 648, Dalton, GA 30720
PLANT: Waynesboro, VA (E & P monofil & P film-captive)
The company weaves *Wayntuf* primary carpet backing (captive).

WELLINGTON PURITAN MILLS (MONTAIR DIV.)
EXECUTIVE OFFICE: Nelson Street, Pilot Mountain, NC 27401
PLANT: Pilot Mountain, NC *Pur-Ty, Welltite* (P yarn & E & P monofil & film)

WELLINGTON SYNTHETIC FIBRES, INC.
EXECUTIVE OFFICE: 52 Courtland Street, Paterson, NJ 07503
PLANT: Leesville & Summerville, SC (P yarn & monofil)
The company also weaves outdoor furniture webs at Leesville.

The following companies are also producing a variety of textile products from olefin: **Cirtex** (P film); **Continental** (P yarn); **Conwed Corp. Conwed Plastic Netting** (P embossed film for netting); **Dicey** (P yarn); **E.I du Pont De Nemours & Company (Inc.)** (E & P embossed film for netting); **Hercules Incorporated, Polymers Division** *Delnet* (E embossed film for netting); **Nalle Inc.** (P embossed film for netting); **Riegel Products Corporation** *Polyweb* (P meltblown); and **The 3M Company** (P spunbonded).

GLASS FIBER

CERTAINTEED CORPORATION
FIBER GLASS REINFORCEMENTS DIVISION
EXECUTIVE OFFICE: P.O. Box 860, Valley Forge, PA 19482
REGIONAL SALES: 1801 East Parkcourt Street, Bldg. D., Suite 104, Santa Ana, CA 92701
5015 N.W. 19th Street, Gainesville, FL 32605
854 Fairway Drive, Bensenville, IL 60106
1 City Centre, 120 West 7th, Bloomington, IN 47401
533-A Mur Len Road, Olathe, KS 66061
1976 Wooddale Blvd., Baton Rouge, LA 70806
2030 52nd Street, Ashtabula, OH 44004
5555 Airport Highway, Suite 210, Toledo, OH 43615
P.O. Box 1329, Kulpsville, PA 19443
2811 Reidville Road, West Oak Square, Suite 12, Spartanburg, SC 29301
4811 Lebanon Road, Suite 107, Hermitage, TN 37076
6326 Hart, Fort Worth, TX 76112
7414 N.E. Hazel Dell Avenue, Suite 207, Vancouver, WA 98665
PLANT: Wichita Falls, TX (roving, woven roving, mat, chopped strand & combination product)

FIBER GLASS INDUSTRIES, INC.
EXECUTIVE OFFICE: Homestead Place, Amsterdam, NY 12010
PLANT: Amsterdam, NY (roving & chopped)

GAF, BUILDING MATERIALS DIVISION
EXECUTIVE OFFICE: 1361 Alps Road, Wayne, NJ 07670
PLANT: Irwindale, CA *Chemglass* (chopped), Nashville, TN (chopped)

GFT (GLASS FIBER TECHNOLOGY)
EXECUTIVE OFFICE: P.O. Box 670, Chester, SC 29706
PLANT: Chester, SC (wet chop for shingles)

LUNDY TECHNICAL CENTER
EXECUTIVE OFFICE: Pompano Beach, FL 33064
PLANT: Pompano Beach, FL *RoMHOglas* (metalized glass fiber roving & strand and nonwoven metalized glass mat)

MANVILLE SALES CORPORATION
MATS, FIBER & REINFORCEMENTS DIVISION
EXECUTIVE OFFICE: P.O. Box 517, Toledo, OH 43693
PLANT: Waterville, OH & Etowah, TN *Chop-Pak, Dura-Glass, Star Rov, Star Stran, Tempstron* (mat, chopped strand, staple yarn, sliver, rovings & microfiber)

NICOFIBERS INC.
EXECUTIVE OFFICE: Ironpoint Road, Shawnee, OH 43782
PLANT: Shawnee, OH *Conformat, Consumat, Sumat* (mat)

NITTOBO-SCHWEBEL CORPORATION *
(Yarn)

OWENS-CORNING FIBERGLAS CORPORATION
EXECUTIVE OFFICE: Fiberglas Tower, Toledo, OH 43659
REGIONAL SALES: 5933 Telegraph Road, Los Angeles, CA 90040
2215 Sanders Road, Northbrook, IL 60062
15300 West 8 Mile, Oak Park, MI 48237
Bldg. 5601, 77 Center Drive, Suite 240, Charlotte, NC 28210
5700 Pearl Road, Suite 104, Cleveland, OH 44129
900 West Valley Road, Suite 1101, Wayne, PA 19087
12880 Hillcrest, Suite 100, Dallas, TX 75230
PLANT: Huntingdon, PA; Aiken & Anderson, SC & Amarillo, TX *Araton, Beta, Bi-Ply, Fiberglas, S-Glass, S-2 Glass, Type 30* (yarn, roving, woven roving, mat chopped & milled)

PPG GLASS FIBERS LTD.
FIBER GLASS PRODUCTS
EXECUTIVE OFFICE: One PPG Place, Pittsburgh, PA 15272
REINFORCEMENT PRODUCTS:
REGIONAL SALES: 23441 South Pointe Drive, Suite 145, Laguna Hills CA 92653.
500 Sugar Mill Road, Bldg. A, Suite 210, Atlanta, GA 30338
246 East Janata Blvd., Suite 200, Lombard, IL 60148
2155 West Big Beaver Road, P.O. Box 3510, Troy, MI 48007-3510
AUTOMOTIVE SALES OFFICE: 2155 West Big Beaver Road, P.O. Box 3510, Troy, MI 48007-3510
TEXTILE PRODUCTS: 1601 East Garrison Blvd., Suite 210, Gastonia, NC 28054
2253 South Avenue, Westfield, NJ 07090
PLANT: Lexington & Shelby, NC (yarn, roving, mat, milled fiber, chopped strand, woven roving & rubber reinforcements)

SUPERIOR GLASS FIBERS, INC.
EXECUTIVE OFFICE: P.O. Box 89, Bremen, OH 43107
PLANT: Bremen, OH (mat)

BASF ACRYLIC OPERATIONS OFFERED FOR SALE

BASF is offering its acrylic fibers and spun yarn plants in Williamsburg, VA for sale. BASF will continue to produce acrylic fibers and spun yarns during the search for a buyer. The sale does not affect the firm's other Williamsburg operations. (BASF news release)

TABLE 2:
LOCATION OF AMERICAN FIBER PRODUCT-MANUFACTURING PLANTS

STATES & AREA	CELLULOSIC [a]	NONCELLULOSIC						GLASS FIBER	GRAND TOTAL
		ACRYLIC [b]	NYLON [c]	OLEFIN	POLYESTER	OTHER [d]	TOTAL		
NEW ENGLAND									
CONNECTICUT				1			1		1
MAINE				1			1		1
MASSACHUSETTS				4	1	1	6		6
RHODE ISLAND				2			2		2
VERMONT			1	1	1		3		3
TOTAL NEW ENGLAND			**1**	**9**	**2**	**1**	**13**		**13**
MID-ATLANTIC									
DELAWARE			1				1		1
MARYLAND			1	1	1	1	4		4
NEW JERSEY			1	1	1		3		3
NEW YORK			2	2	1	1	6	1	7
PENNSYLVANIA					1		1	1	2
TOTAL MID-ATLANTIC			**5**	**4**	**4**	**2**	**15**	**2**	**17**
PIEDMONT									
N. CAROLINA			3	12	9	1	25	2	27
S. CAROLINA	1	1	11	8	9	2	31	3	35
VIRGINIA	2	2	7	6	2	2	19		21
WEST VIRGINIA			1		2		3		3
TOTAL PIEDMONT	**3**	**3**	**22**	**26**	**22**	**5**	**78**	**5**	**86**
SOUTH									
ALABAMA	1	2	2	4	1		9		10
FLORIDA		1	3	2			6	1	7
GEORGIA			3	25	1		29		29
LOUISIANA				2			2		2
MISSISSIPPI				2			2		2
TENNESSEE	3		2	3	4		9	2	14
TEXAS								2	2
TOTAL SOUTH	**4**	**3**	**10**	**38**	**6**		**57**	**5**	**66**
MID-WEST & WEST									
CALIFORNIA				2			2	1	3
IDAHO				1			1		1
IOWA			1	1			2		2
KANSAS				1			1		1
MICHIGAN				1			1		1
MINNESOTA				1			1		1
OHIO				1			1	3	4
OREGON				1			1		1
WASHINGTON				1			1		1
WISCONSIN				1			1		1
TOTAL MIDWEST & WEST			**1**	**11**			**12**	**4**	**16**
TOTAL NUMBER OF PLANTS	**7**	**6**	**39**	**88**	**34**	**8**	**175**	**16**	**198**
TOTAL NUMBER OF STATES	**4**	**4**	**14**	**25**	**13**	**6**	**30**	**9**	**31**

a. Cellulosic includes rayon, acetate and triacetate.
b. Acrylic includes modacrylic.
c. Nylon includes 1 aramid.
d. Other includes 1 fluorocarbon, 1 PBI, 1 polycarbonate, 1 saran, 3 spandex and 1 vinyon.

TABLE 3:
SELECTED U.S. MAN-MADE FIBER IMPORTS FOR CONSUMPTION BY COUNTRY OF ORIGIN
THOUSAND POUNDS

ITEMS & COUNTRY	1988												YEAR TO DATE	
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1988	1987
CELLULOSIC YARN, MONOFIL & STRIPS														
AUSTRIA	0	0	0	0	0	0	0	0	0				0	244
BRAZIL	54	0	28	55	28	13	69	29	36				312	422
CANADA	426	481	507	292	592	827	427	739	779				5070	2211
GERMANY, FED. REP. OF	353	635	281	227	388	313	358	355	315				3225	3574
JAPAN	277	131	45	121	62	63	54	17	27				797	486
MEXICO	62	53	18	81	70	68	115	86	114				667	449
NETHERLANDS	190	229	228	289	142	104	176	218	266				1842	755
ALL OTHER COUNTRIES [a]	11	1	21	67	44	178	35	86	109				552	157
TOTAL CELLULOSIC YARN	**1373**	**1530**	**1128**	**1132**	**1326**	**1566**	**1234**	**1530**	**1646**				**12465**	**8298**
CELLULOSIC STAPLE+TOW														
CANADA	1086	774	974	797	1355	1551	1309	2131	1880				11857	8969
ITALY	34	73	19	0	33	0	39	32	0				230	587
JAPAN	99	0	91	46	37	68	101	45	237				724	785
SWEDEN	0	41	45	0	20	0	0	0	0				106	219
UNITED KINGDOM	57	0	79	54	0	24	113	50	40				417	299
ALL OTHER COUNTRIES [b]	28	0	10	51	43	+	70	2	0				204	115
TOTAL CELLULOSIC STAPLE+TOW	**1304**	**888**	**1218**	**948**	**1488**	**1643**	**1632**	**2260**	**2157**				**13538**	**10974**
NONCELLULOSIC YARN, MONOFIL & STRIPS														
BELGIUM	1436	1117	1665	894	172	530	803	630	1016				8263	9092
BRAZIL	0	7	0	199	169	109	92	203	80				859	3
CANADA	1448	1872	2220	2156	2451	1677	1568	2139	1766				17297	13876
COSTA RICA	606	570	654	533	514	523	692	442	606				5140	5213
DENMARK	0	0	0	0	61	30	60	0	30				181	215
FRANCE	767	588	716	338	272	712	642	960	410				5405	4156
GERMANY, FED. REP. OF	1074	1355	1968	1078	1495	1146	1130	1342	1408				11996	18150
IRELAND	37	34	74	114	150	78	192	114	138				931	413
ISRAEL	388	309	123	304	182	254	273	281	208				2322	1845
ITALY	761	811	177	1678	942	412	1403	829	1051				8064	9701
JAPAN	648	212	729	277	282	338	304	337	328				3455	5672
KOREA, REP. OF	3	23	33	63	0	40	1	0	0				163	311
MEXICO	1428	2004	1547	978	1622	1660	1545	1659	1758				14201	15055
NETHERLANDS	49	42	26	31	57	4	16	10	116				351	977
ROMANIA	12	58	40	160	122	519	0	0	0				911	166
SINGAPORE	81	41	44	19	34	35	23	23	23				323	331
TAIWAN	12	26	12	53	69	34	70	103	164				543	522
UNITED KINGDOM	676	753	220	632	917	751	819	1050	731				6549	6426
ALL OTHER COUNTRIES [c]	192	179	167	58	54	156	147	152	167				1272	1810
TOTAL NONCELLULOSIC YARN	**9618**	**10001**	**10415**	**9565**	**9565**	**9008**	**9780**	**10274**	**10000**				**88226**	**93934**
NONCELLULOSIC STAPLE+TOW														
AUSTRIA	601	727	752	1321	296	481	506	867	270				5821	1537
AUSTRALIA	38	0	36	19	0	693	46	18	19				869	182
BELGIUM	35	0	18	18	634	0	18	193	10				926	164
BRAZIL	0	0	0	499	0	0	0	0	0				499	1673
CANADA	2003	2183	2981	2221	2797	1824	2353	2020	2692				21074	23777
FRANCE	934	799	800	957	1257	934	826	1220	675				8402	6057
GERMANY, FED. REP. OF	2738	3040	2503	2478	3319	2475	2793	3377	2357				25080	24206
INDIA	0	0	0	0	2575	2050	1556	2239	1068				9488	1
IRELAND	80	123	162	325	422	240	362	201	312				2227	1060
ITALY	130	362	145	241	5	37	44	190	85				1239	10917
JAPAN	1963	2057	1894	2166	1912	3095	1771	3016	2187				20061	17689
KOREA, REP. OF	1355	1516	1456	1580	1295	1604	2058	1908	2699				15471	8533
MALAYSIA	0	95	48	48	0	95	48	48	0				382	516
MEXICO	303	549	210	502	985	1043	822	800	605				5819	17352
ROMANIA	448	0	86	664	230	893	0	0	53				2374	3598
SWITZERLAND	102	21	153	189	123	122	160	127	148				1145	793
TAIWAN	1986	1109	1425	1112	1024	1384	549	1172	1321				11082	17559
UNITED KINGDOM	1604	1503	2175	1920	1777	1745	1184	2046	1495				15449	10489
ALL OTHER COUNTRIES [d]	22	30	12	85	0	19	146	283	49				646	1268
TOTAL NONCELLULOSIC STAPLE+TOW	**14342**	**14114**	**14856**	**16345**	**18651**	**18734**	**15242**	**19725**	**16045**				**148054**	**147371**

\+ Less than 1 thousand pounds.

a. United Kingdom 175, Morocco 111, Singapore 108, France 65, Korea, Rep. of 51, Taiwan 20, Norway 12, Italy 7, Australia 3.

b. Austria 111, France 61, Australia 25, Germany, Fed. Rep. of 2, Luxembourg 2, Mexico 2, Belgium 1.

c. Spain 295, Chile 267, Australia 157, Argentina 124, Norway 117, Sweden 102, Turkey 81, Switzerland 64, Austria 40, China, PRC 11, Hong Kong 12, Vatican City 1, Sri Lanka 1, Egypt, Greece, India.

d. Gibraltar 259, Netherlands 104, Israel 93, New Caledonia 70, Finland 57, Hong Kong 42, Spain 8, China, PRC 6, Egypt 3, Greece 2, Portugal 2, Philippines.

TABLE 4:
U.S. MAN-MADE FIBER IMPORTS FOR CONSUMPTION
THOUSAND POUNDS

ITEM	COMMODITY NUMBER AS OF 1/1/87	1988 JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR TO DATE 1988	1987
CELLULOSIC FIBER															
YARN - SINGLES															
TEXTURED	310.0106 & .0206	0	+	0	64	18	16	61	56	93				308	290
OTHER	310.0130 & .0230[a]	1362	1468	1021	995	1210	1412	1173	1318	1496				11455	7854
MONOFILAMENTS	309.0310 & .0610	0	+	0	1	1	0	0	3	1				6	5
STRIPS, $1/LB & UNDER	309.2000*	11	62	107	72	97	138	0	153	56				696	149
SUBTOTAL ABOVE		1373	1530	1128	1132	1326	1566	1234	1530	1646				12465	8298
STAPLE	309.4320 & .4325	1182	888	1107	934	1354	1492	1406	2123	1995				12481	10269
GROUPED FILAMENTS	309.3010 & .3310	122	0	111	14	134	151	226	137	162				1057	705
SUBTOTAL ABOVE		1304	888	1218	948	1488	1643	1632	2260	2157				13538	10974
WASTE, ADVANCED&NOT ADVANCED	309.6615 & .7510	0	+	0	0	0	0	0	0	0				+	28
NONCELLULOSIC FIBER	*														
YARN - SINGLES															
TEXTURED - NYLON															
LESS THAN 450 DENIER	310.0107 & .0207	341	297	204	271	150	176	175	235	223				2072	1424
450 DENIER AND OVER	310.0108 & .0208	1503	1643	1531	2018	1472	1080	1980	1970	1177				14374	21786
- POLYESTER	310.0110 & .0210	989	1368	1024	881	1327	1749	1033	1116	1363				10850	11307
- OTHER	310.0114 & .0214	2158	1830	2815	1920	1882	1811	2313	1978	2567				19274	17055
OTHER - NYLON	310.0149 & .0249	1154	1567	1602	1249	1672	1267	1216	1782	1463				12972	18092
- POLYESTER	310.0150 & .0250	2153	1631	1734	1657	1707	1719	1981	1964	1920				16466	14580
- OTHER	310.0170 & .0270[b]	762	1085	876	922	469	453	418	493	657				6135	5082
MONOFILAMENTS	309.0200 & .0330[c]	381	384	307	374	454	483	380	459	355				3577	2707
STRIPS, OVER $1/LB	309.2100 & .2500*	177	196	322	273	432	270	284	277	275				2506	1901
SUBTOTAL ABOVE		9618	10001	10415	9565	9565	9008	9780	10274	10000				88226	93934
STAPLE - NYLON	309.4331 & .4351	1696	1306	1915	2115	1707	1284	1468	1724	2177				15392	32064
- POLYESTER	309.4336 & .4361	4653	5670	4716	4932	7498	8268	6130	8251	7923				58041	56278
- ACRYLIC	309.4366	1214	953	1179	1399	1647	1377	1257	1513	533				11072	11993
- OLEFIN	309.4371	83	104	534	498	165	174	40	99	0				1697	439
- OTHER	309.4341 & .4390	1350	1625	1750	2008	969	1907	1239	1632	1279				13759	9628
GROUPED FILAMENTS															
NYLON	309.3030 & .3200	3713	2877	3289	3284	4091	3619	3596	3785	2430				30684	23666
POLYESTER	309.3040 & .3340	441	215	65	421	305	376	426	701	278				3228	2374
ACRYLIC	309.3050 & .3350	1086	1331	1249	1664	1631	1698	992	1855	1348				12854	9564
OTHER	309.3065 & .3365	106	33	159	24	638	31	94	165	77				1327	1365
SUBTOTAL ABOVE		14342	14114	14856	16345	18651	18734	15242	19725	16045				148054	147371
WASTE, NOT ADVANCED															
- NYLON	309.6625	2940	1991	1933	1842	2391	2267	1716	1344	1323				17747	20364
- POLYESTER	309.6630	550	487	1073	637	470	1233	716	500	1153				6819	7188
- ACRYLIC	309.6645	0	0	21	110	0	2	0	0	0				133	232
- OTHER	309.6660	221	272	392	157	271	260	101	241	194				2110	3924
NOILS & GARNETTED FIBERS	309.7000*	80	0	0	33	0	0	0	0	0				113	62
OTHER WASTE, ADVANCED	309.7525 - .7555	596	596	637	323	366	280	286	435	565				4084	3824
SUBTOTAL ABOVE		4387	3347	4056	3102	3498	4042	2819	2520	3235				31006	35594
TOTAL MAN-MADE ABOVE		31024	29880	31673	31092	34528	34993	30707	36309	33083				293289	296199
OTHER MAN-MADE FIBER TOPS, YARN & THREAD															
YARN - PLIED															
TEXTURED - CELLULOSIC	310.1506	0	0	+	0	0	0	0	0	0				+	5
- NONCELLULOSIC	310.1015[d]& .1205[e]	340	110	184	216	276	176	197	156	122				1777	3328
OTHER - CELLULOSIC	310.1030 & .1535[f]	15	21	5	34	19	22	15	42	50				223	404
- NONCELLULOSIC	310.1050 & .1070[g]	276	262	305	289	338	303	255	321	309				2658	2444
SPUN YARN - CELLULOSIC	310.4005 & .4030[h]	62	95	137	23	94	74	112	46	49				692	1229
- OTHER	310.4015 & .4027[i]	2503	1471	1826	1155	2219	2781	174	1751	2012				15892	29689
OTHER YARNS - NES, INCL. CHENILLE	310.6034 - .8000	2122	1933	1143	1956	1629	1099	2762	997	1451				15092	20004
HANDWORK YARNS & SEWING THREAD	310.9000 & .9310[j]	607	197	1714	585	661	789	600	556	652				6361	6741
SLIVER, TOPS & ROVING	309.9000	271	287	351	530	234	181	359	398	63				2674	4726
GLASS FIBER	309.2800 & .2900[k]	2526	2716	404	2483	2271	2344	2110	2469	1927				19250	21898
GRAND TOTAL ABOVE		39746	36972	37742	38363	42269	42762	37291	43045	39718				357908	386867

SOURCE: U.S. Census Bureau Report IM145X.

NES Not elsewhere specified.

\+ Less than 1 thousand pounds.

* These items are not reported by the Census Bureau as cellulosic vs. noncellulosic. Separation of cellulosic and noncellulosic quantities are estimated, based primarily on average declared value.

a. Also includes 310.0610.

b. Also includes 310.0530, .0550, .0630 & .0650.

c. Also includes 309.0340, .0365, .0500, .0630, .0640 & .0665.

d. There may be some acetate yarn in these data, but the Census figures do not permit a segregation.

e. Also includes 310.1210.

f. Also includes 310.2110.

g. Also includes 310.1510, .1514, .1550, 1555, .1570, .2050, .2130 & .2150.

h. Also includes 310.5005 & .5030.

i. Also includes 310.4046, .4047, .4050, .5015, .5046, .5047, .5049 & .5051.

j. Also includes 310.9320 & .9500.

k. Chiefly roving. Also includes 309.9800 & .9900.

TABLE 5:
U.S. EXPORTS OF MAN-MADE FIBER
THOUSAND POUNDS

ITEM	COMMODITY NUMBER AS OF 1/1/87	1988 JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR TO DATE 1988	1987
CELLULOSIC FIBER															
FILAMENT YARN [a]															
TEXTURED	310.0004	27	2	6	31	61	5	11	59	10				212	497
OTHER [b]	310.0026	683	991	556	1220	1231	1269	582	1212	1765				9509	4042
MONOFILAMENTS	309.0110	89	36	5	36	9	45	0	28	9				257	75
STRIPS	309.2210	0	23	0	0	10	2	0	1	0				36	75
SUBTOTAL ABOVE		799	1052	567	1287	1311	1321	593	1300	1784				10014	4689
STAPLE+TOW-RAYON	309.4222	1019	1907	1702	1468	2682	2250	1615	2034	2492				17169	29531
STAPLE-ACETATE	309.4219	89	66	309	329	146	97	209	126	374				1745	1192
SUBTOTAL ABOVE		1108	1973	2011	1797	2828	2347	1824	2160	2866				18914	30723
WASTE, ADVANCED & NOT ADVANCED	309.7400	143	251	198	86	263	42	432	235	80				1730	843
NONCELLULOSIC FIBER															
YARN - SINGLES															
NYLON - TEXTURED	310.0005 & .0007	3651	4775	4929	3355	4209	4685	5391	3916	5626				40537	25542
- HIGH TENACITY [c]	310.0027	8372	8470	8040	6580	6438	6533	8344	4836	10656				68269	59794
- OTHER	310.0029	786	1111	904	1186	1068	819	1072	978	841				8765	6846
POLYESTER - TEXTURED	310.0010	1739	2796	3405	2979	3311	2690	2371	5279	4051				28621	19521
- HIGH TENACITY [c]	310.0032	1421	1817	2189	2281	2706	2059	2534	2410	3092				20509	19580
- OTHER [d]	310.0034	207	225	265	284	135	68	239	134	55				1612	1355
OTHER - TEXTURED	310.0014	1067	1904	2220	1725	2118	1459	1720	1640	1879				15732	12743
- OLEFIN	310.0040	83	626	121	143	161	160	258	322	330				2204	568
- OTHER	310.0044	360	729	886	802	688	699	507	468	381				5520	4876
MONOFILAMENTS, ALL DENIERS															
NYLON	309.0120	658	725	515	983	523	623	289	649	399				5367	4938
POLYESTER	309.0140	1641	1789	2345	1784	1871	1713	1992	1990	1345				16470	8084
OTHER	309.0170	680	901	768	769	847	603	553	705	754				6580	5447
STRIPS	309.2220 & .2270	415	192	277	442	454	394	346	377	340				3237	3317
SUBTOTAL ABOVE		21080	26063	26864	23313	24529	22505	25616	23704	29749				223423	172611
STAPLE - NYLON	309.4240	2423	1511	1760	981	1387	1491	1575	2125	2280				15533	16233
- POLYESTER	309.4242	13519	7586	10316	10132	11435	11625	13750	11140	12917				102420	133567
- ACRYLIC	309.4245	17224	11389	16118	7723	12187	4510	8350	11085	13735				102321	40660
- OLEFIN	309.4246	1488	1604	2696	2137	1784	1876	1683	561	1102				14931	17022
- OTHER	309.4247	1228	1696	3193	1951	2312	2229	1358	2437	2178				18582	28577
GROUPED FILAMENTS															
NYLON	309.3220	693	497	469	339	601	746	639	761	632				5377	3555
POLYESTER [d]	309.3240	2106	1330	2067	794	2046	1953	1230	1764	1740				15032	15474
ACRYLIC	309.3250 & .3255	4967	2172	3809	2267	3498	2338	3049	1753	2746				26599	18668
SUBTOTAL ABOVE		43650	27785	40428	26324	35250	26768	31634	31626	37330				300795	273756
WASTE, ADVANCED & NOT ADVANCED															
- NYLON	309.7620	685	1210	1189	1492	1287	2199	1489	1661	1596				12808	8507
- POLYESTER	309.7630	3959	4435	6616	4231	4813	5219	3829	6994	6607				46703	41289
- ACRYLIC	309.7640	312	1219	923	676	970	795	671	597	620				6783	7356
- OTHER	309.7660	3765	3582	3138	3474	3605	3309	3019	3970	4094				31956	26245
SUBTOTAL ABOVE		8721	10446	11866	9873	10675	11522	9008	13222	12917				98250	83397
TOTAL MAN-MADE ABOVE		75501	67570	81934	62680	74856	64505	69107	72247	84726				653126	566019
GLASS FIBER	309.2700 & .9700	8813	9352	9114	8934	7139	8164	9712	9075	8429				78732	62819
GRAND TOTAL ABOVE		84314	76922	91048	71614	81995	72669	78819	81322	93155				731858	628838

SOURCE: U.S. Census Bureau Report EM522.

+ Less than 1 thousand pounds.

a. Includes singles and plied yarn.

b. Includes rayon tire cord.

c. Includes noncellulosic tire cord.

d. Includes zero twist yarns.

TABLE 6:
QUARTERLY MAN-MADE FIBER DATA

MILLION POUNDS

ITEM	1986 1ST Q	1986 2ND Q	1986 3RD Q	1986 4TH Q	1986 YEAR	1987 1ST Q	1987 2ND Q	1987 3RD Q	1987 4TH Q	1987 YEAR	1988 1ST Q	1988 2ND Q	1988 3RD Q	1988 4TH Q	1988 YEAR
						YARN+MONOFILAMENTS									
CELLULOSIC YARN [d]															
PRODUCTION	**54.3**	**54.7**	**54.1**	**51.7**	**214.8**	**46.2**	**46.7**	**45.2**	**53.0**	**191.1**	**49.1**	**54.4**	**54.9**		
SHIPMENTS - DOMESTIC	48.6	50.4	47.7	45.4	192.1	39.2	43.6	40.2	43.8	166.8	41.4	47.3	45.8		
- EXPORT	4.7	5.1	4.9	5.5	20.2	5.0	5.9	6.1	7.9	24.9	8.7	7.9	10.0		
TOTAL SHIPMENTS	**53.3**	**55.5**	**52.6**	**50.9**	**212.3**	**44.2**	**49.5**	**46.3**	**51.7**	**191.7**	**50.1**	**55.2**	**55.8**		
ENDING STOCK	**13.3**	**12.5**	**14.0**	**14.8**		**16.8**	**14.0**	**12.9**	**14.2**		**13.2**	**12.4**	**11.5**		
IMPORTS	3.9	4.6	3.6	4.1	16.2	3.0	2.5	2.7	4.4	12.6	4.0	4.0	4.4		
TOTAL AVAILABLE	**52.5**	**55.0**	**51.3**	**49.5**	**208.3**	**42.2**	**46.1**	**42.9**	**48.2**	**179.4**	**45.4**	**51.3**	**50.2**		
NYLON															
PRODUCTION	**396.9**	**396.5**	**398.3**	**414.6**	**1606.3**	**414.1**	**427.5**	**432.9**	**422.7**	**1697.2**	**431.7**	**440.0**	**428.8**		
SHIPMENTS - DOMESTIC	363.4	368.7	377.7	370.6	1480.4	389.3	394.8	405.8	364.4	1554.3	387.8	395.4	391.1		
- EXPORT	26.7	28.2	25.1	32.8	112.8	32.1	37.9	33.7	35.8	139.5	39.6	38.1	41.5		
TOTAL SHIPMENTS	**390.1**	**396.9**	**402.8**	**403.4**	**1593.2**	**421.4**	**432.7**	**439.5**	**400.2**	**1693.8**	**427.4**	**433.5**	**432.6**		
ENDING STOCK	**126.5**	**126.1**	**121.6**	**132.8**		**125.5**	**120.3**	**113.7**	**136.2**		**140.5**	**147.0**	**143 2**		
OLEFIN [a]															
PRODUCTION	**245.9**	**255.7**	**259.5**	**296.6**	**1057.7**	**255.8**	**283.9**	**287.4**	**306.7**	**1133.8**	**301.6**	**308.9**	**291.7**		
SHIPMENTS - DOMESTIC	241.3	258.4	257.8	291.7	1049.2	261.5	281.8	287.5	304.7	1135.5	298.3	302.5	287.7		
- EXPORT	2.4	2.9	2.6	2.6	10.5	2.7	1.7	1.8	2.1	8.3	2.7	5.9	6.0		
TOTAL SHIPMENTS	**243.7**	**261.3**	**260.4**	**294.3**	**1059.7**	**264.2**	**283.5**	**289.3**	**306.8**	**1143.8**	**301.0**	**308.4**	**293.7**		
ENDING STOCK	**67.1**	**61.5**	**60.6**	**62.9**		**54.5**	**54.9**	**53.0**	**52.9**		**53.5**	**54.0**	**52.0**		
POLYESTER															
PRODUCTION	**322.2**	**271.5**	**285.5**	**293.5**	**1172.7**	**287.7**	**303.3**	**293.9**	**293.8**	**1178.7**	**284.5**	**313.5**	**304.6**		
SHIPMENTS - DOMESTIC	284.8	253.5	273.7	280.4	1092.4	266.8	285.2	280.8	280.6	1113.4	266.7	291.9	278.2		
- EXPORT	21.8	23.8	14.3	17.4	77.3	16.4	18.4	15.8	16.3	66.9	18.8	17.8	16.7		
TOTAL SHIPMENTS	**306.6**	**277.3**	**288.0**	**297.8**	**1169.7**	**283.2**	**303.6**	**296.6**	**296.9**	**1180.3**	**285.5**	**309.7**	**294.9**		
ENDING STOCK	**123.5**	**117.7**	**115.2**	**110.9**		**115.4**	**115.1**	**112.4**	**109.3**		**108.3**	**112.1**	**121.8**		
TOTAL NONCELLULOSIC ABOVE															
PRODUCTION	**965.0**	**923.7**	**943.3**	**1004.7**	**3836.7**	**957.6**	**1014.7**	**1014.2**	**1023.2**	**4009.7**	**1017.8**	**1062.4**	**1025.1**		
SHIPMENTS - DOMESTIC	889.5	880.6	909.2	942.7	3622.0	917.6	961.8	974.1	949.7	3803.2	952.8	989.8	957.0		
- EXPORT	50.9	54.9	42.0	52.8	200.6	51.2	58.0	51.3	54.2	214.7	61.1	61.8	64.2		
SHIPMENTS	**940.4**	**935.5**	**951.2**	**995.5**	**3822.6**	**968.8**	**1019.8**	**1025.4**	**1003.9**	**4017.9**	**1013.9**	**1051.6**	**1021.2**		
ENDING STOCK	**317.1**	**305.3**	**297.4**	**306.6**		**295.4**	**290.3**	**279.1**	**298.4**		**302.3**	**313.1**	**317.0**		
DOMESTIC SHIPMENTS	889.5	880.6	909.2	942.7	3622.0	917.6	961.8	974.1	949.7	3803.2	952.8	989.8	957.0		
IMPORTS -TEXTURED YARN [b]	17.9	19.5	20.4	24.1	81.9	19.3	15.1	17.2	16.9	68.5	15.7	14.7	16.1		
-OTHER YARN [b]	12.3	13.9	14.7	14.0	54.9	13.3	12.4	11.9	11.3	48.9	11.2	11.1	11.9		
-MONOFILAMENTS	0.8	0.6	0.5	0.8	2.7	0.8	0.9	1.0	1.1	3.8	1.8	2.3	2.0		
TOTAL IMPORTS	31.0	34.0	35.6	38.9	139.5	33.4	28.4	30.1	29.3	121.2	28.7	28.1	30.0		
TOTAL AVAILABLE	**920.5**	**914.6**	**944.8**	**981.6**	**3761.5**	**951.0**	**990.2**	**1004.2**	**979.0**	**3924.4**	**981.5**	**1017.9**	**987.0**		
						GLASS FIBER									
TOTAL SHIPMENTS	**330.6**	**352.6**	**333.9**	**322.2**	**1339.3**	**366.1**	**392.5**	**383.3**	**371.2**	**1513.1**	**386.4**	**415.2**	**405.9**		
IMPORTS	7.9	6.0	4.4	5.4	23.7	4.9	5.6	11.3	7.6	29.4	5.6	7.1	6.5		

FOOTNOTES FOR TABLE ABOVE & OPPOSITE:

"Imports" are imports for consumption, as reported by the U.S. Census Bureau.

a. Also include film fiber as well as spunbonded polypropylene.

b. Includes singles and plied.

c. These figures are composites of the nylon, acrylic+modacrylic and polyester staple imports, i.e., Commodity Numbers 309.4331, .4351, .4336 & .4361.

d. Includes both rayon & acetate yarn.

e. These figures are composites of olefin and other staple imports, i.e., Commodity Numbers 309.4371, .4341 & .4390.

f. 1987-1988 data exclude Vinyon.

TABLE 6:
QUARTERLY MAN-MADE FIBER DATA *(Continued)*

MILLION POUNDS

ITEM	1986 1ST Q	1986 2ND Q	1986 3RD Q	1986 4TH Q	1986 YEAR	1987 1ST Q	1987 2ND Q	1987 3RD Q	1987 4TH Q	1987 YEAR	1988 1ST Q	1988 2ND Q	1988 3RD Q	1988 4TH Q	1988 YEAR
						STAPLE+TOW									
RAYON															
PRODUCTION	**95.1**	**99.7**	**103.4**	**105.5**	**403.7**	**101.3**	**100.5**	**103.6**	**108.4**	**413.8**	**106.6**	**101.2**	**99.4**		
SHIPMENTS - DOMESTIC	91.6	92.0	95.1	94.3	373.0	91.8	91.0	97.9	102.4	383.1	101.9	102.0	94.0		
- EXPORT	6.3	6.9	7.3	10.3	30.8	8.1	8.2	12.6	3.5	32.4	5.1	6.1	5.5		
TOTAL SHIPMENTS	**97.9**	**98.9**	**102.4**	**104.6**	**403.8**	**99.9**	**99.2**	**110.5**	**105.9**	**415.5**	**107.0**	**108.1**	**99.5**		
ENDING STOCK	**19.7**	**20.5**	**21.5**	**22.4**		**23.8**	**25.1**	**18.2**	**20.7**		**20.3**	**13.4**	**13.3**		
DOMESTIC SHIPMENTS	91.6	92.0	95.1	94.3	373.0	91.8	91.0	97.9	102.4	383.1	101.9	102.0	94.0		
IMPORTS FOR CONSUMPTION															
STAPLE	3.9	3.6	4.6	4.3	16.4	3.9	3.8	2.6	2.7	13.0	3.2	3.8	5.5		
GROUPED FILAMENTS	0.3	0.3	0.3	0.1	1.0	0.2	0.1	0.4	0.2	0.9	0.2	0.3	0.5		
TOTAL IMPORTS	4.2	3.9	4.9	4.4	17.4	4.1	3.9	3.0	2.9	13.9	3.4	4.1	6.0		
TOTAL AVAILABLE	**95.8**	**95.9**	**100.0**	**98.7**	**390.4**	**95.9**	**94.9**	**100.9**	**105.3**	**397.0**	**105.3**	**106.1**	**100.0**		
NYLON															
PRODUCTION	**220.5**	**207.4**	**236.1**	**244.3**	**908.3**	**247.4**	**261.0**	**252.8**	**231.2**	**992.4**	**231.5**	**235.9**	**226.6**		
SHIPMENTS-DOMESTIC	195.2	203.2	254.3	242.2	894.9	246.2	253.2	246.2	220.4	966.0	239.4	223.9	241.6		
-EXPORT	3.9	2.9	3.0	3.5	13.3	5.3	5.0	3.7	5.5	19.5	4.3	4.3	4.9		
TOTAL SHIPMENTS	**199.1**	**206.1**	**257.3**	**245.7**	**908.2**	**251.5**	**258.2**	**249.9**	**225.9**	**985.5**	**243.7**	**228.2**	**246.5**		
ENDING STOCK	**84.1**	**85.4**	**64.2**	**62.8**		**58.7**	**61.5**	**64.4**	**69.7**		**57.5**	**65.2**	**45.3**		
IMPORTS	11.9	10.6	14.9	14.6	52.0	14.8	8.7	8.6	6.9	39.0	4.9	5.1	5.4		
TOTAL AVAILABLE	**207.1**	**213.8**	**269.2**	**256.8**	**946.9**	**261.0**	**261.9**	**254.8**	**227.3**	**1005.0**	**244.3**	**229.0**	**247.0**		
ACRYLIC+MODACRYLIC															
PRODUCTION	**149.0**	**151.1**	**158.0**	**157.8**	**615.9**	**155.7**	**159.0**	**135.3**	**141.5**	**591.5**	**148.8**	**150.9**	**141.5**		
SHIPMENTS-DOMESTIC	123.1	143.7	138.7	125.7	531.2	139.4	131.6	112.8	95.5	479.3	109.0	109.3	107.3		
-EXPORT	27.1	19.2	17.8	18.8	82.9	14.7	17.0	32.0	51.4	115.1	47.7	29.1	39.8		
TOTAL SHIPMENTS	**150.2**	**162.9**	**156.5**	**144.5**	**614.1**	**154.1**	**148.6**	**144.8**	**146.9**	**594.4**	**156.7**	**138.4**	**147.1**		
ENDING STOCK	**63.2**	**51.4**	**52.9**	**66.2**		**67.8**	**78.2**	**68.7**	**63.3**		**55.4**	**67.9**	**62.3**		
IMPORTS	3.2	4.0	5.3	4.9	17.4	3.3	4.1	4.6	3.7	15.7	3.3	4.4	3.3		
TOTAL AVAILABLE	**126.3**	**147.7**	**144.0**	**130.6**	**548.6**	**142.7**	**135.7**	**117.4**	**99.2**	**495.0**	**112.3**	**113.7**	**110.6**		
OLEFIN+VINYON [f]															
PRODUCTION	**82.4**	**82.3**	**84.7**	**85.9**	**335.3**	**85.5**	**92.3**	**92.1**	**90.6**	**360.5**	**94.3**	**94.5**	**85.9**		
SHIPMENTS-DOMESTIC	73.9	82.6	76.4	79.8	312.7	81.1	85.7	86.1	88.2	341.1	83.8	87.6	84.8		
-EXPORT	4.2	4.8	4.8	5.0	18.8	6.9	5.7	5.4	4.8	22.8	5.6	5.8	4.4		
TOTAL SHIPMENTS	**78.1**	**87.4**	**81.2**	**84.8**	**331.5**	**88.0**	**91.4**	**91.5**	**93.0**	**363.9**	**89.4**	**93.4**	**89.2**		
ENDING STOCK	**34.0**	**28.9**	**32.4**	**33.5**		**31.0**	**31.9**	**32.5**	**30.1**		**35.0**	**36.1**	**32.8**		
POLYESTER															
PRODUCTION	**520.8**	**538.7**	**522.1**	**550.7**	**2132.3**	**581.0**	**596.2**	**578.4**	**606.2**	**2361.8**	**587.4**	**619.5**	**604.3**		
SHIPMENTS-DOMESTIC	499.1	499.9	496.3	503.3	1998.6	534.4	549.9	537.5	579.2	2201.0	558.3	572.5	551.2		
-EXPORT	25.7	25.0	31.6	42.5	124.8	48.2	47.0	38.3	34.7	168.2	27.8	31.1	38.2		
TOTAL SHIPMENTS	**524.8**	**524.9**	**527.9**	**545.8**	**2123.4**	**582.6**	**596.9**	**575.8**	**613.9**	**2369.2**	**586.1**	**603.6**	**589.4**		
ENDING STOCK	**151.0**	**164.8**	**159.0**	**163.9**		**162.3**	**161.6**	**164.2**	**156.5**		**157.8**	**173.7**	**188.6**		
IMPORTS	9.3	8.9	8.7	13.9	40.8	15.5	17.4	23.4	14.4	70.7	15.0	20.7	22.3		
TOTAL AVAILABLE	**508.4**	**508.8**	**505.0**	**517.2**	**2039.4**	**549.9**	**567.3**	**560.9**	**593.6**	**2271.7**	**573.3**	**593.2**	**573.5**		
TOTAL NONCELLULOSIC															
PRODUCTION	**972.7**	**979.5**	**1000.9**	**1038.7**	**3991.8**	**1069.6**	**1108.5**	**1058.6**	**1069.5**	**4306.2**	**1062.0**	**1100.8**	**1058.3**		
SHIPMENTS-DOMESTIC	891.3	929.4	965.7	951.0	3737.4	1001.1	1020.4	982.6	983.3	3987.4	990.5	993.3	984.9		
-EXPORT	60.9	51.9	57.2	69.8	239.8	75.1	74.7	79.4	96.4	325.6	85.4	70.3	87.3		
TOTAL SHIPMENTS	**952.2**	**981.3**	**1022.9**	**1020.8**	**3977.2**	**1076.2**	**1095.1**	**1062.0**	**1079.7**	**4313.0**	**1075.9**	**1063.6**	**1072.2**		
ENDING STOCK	**332.3**	**330.5**	**308.5**	**326.4**		**319.8**	**333.2**	**329.8**	**319.6**		**305.7**	**342.9**	**329.0**		
DOMESTIC SHIPMENTS	891.3	929.4	965.7	951.0	3737.4	1001.1	1020 4	982.6	983.3	3987.4	990.5	933.3	984.9		
IMPORTS FOR CONSUMPTION															
3 FIBERS ABOVE [c]	24.4	23.5	28.9	33.4	110.2	33.6	30.2	36.6	25.0	125.4	23.2	30.2	31.0		
OTHER N.C. STAPLE [e]	7.2	4.4	2.5	2.0	16.1	2.8	3.6	3.7	3.4	13.5	5.6	5.7	4.3		
GROUPED FILAMENTS	14.4	15.0	14.7	12.4	56.5	12.4	12.4	12.1	13.1	50.0	14.5	17.8	15.7		
TOTAL IMPORTS	46.0	42.9	46.1	47.8	182.8	48.8	46.2	52.4	41.5	188.9	43.3	53.7	51.0		
TOTAL AVAILABLE	**937.3**	**972.3**	**1011.8**	**998.8**	**3920.2**	**1049.9**	**1066.6**	**1035.0**	**1024.8**	**4176.3**	**1033.8**	**1047.0**	**1035.9**		

See footnotes on opposite page.

TABLE 7:
SELECTED U.S. MONTHLY FIBER DATA

MILLION POUNDS

ITEM	1988 JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR TO DATE[a] 1988	1987
MAN-MADE FIBER TOTAL SHIPMENTS[b,c]														
CELLULOSIC														
YARN	15.9	16.1	18.1	19.4	18.3	17.5	19.1	18.6	18.1	18.6			179.7	157.1
RAYON STAPLE	32.6	35.9	38.5	35.5	36.4	36.2	29.1	36.1	34.3	34.8			349.4	346.1
TOTAL CELLULOSIC	**48.5**	**52.0**	**56.6**	**54.9**	**54.7**	**53.7**	**48.2**	**54.7**	**52.4**	**53.4**			**529.1**	**503.2**
NONCELLULOSIC														
YARN+MONOFILAMENTS														
NYLON - INDUSTRIAL[d]	27.5	32.1	34.8	32.2	30.8	32.4	32.4	28.8	29.2	29.9			310.1	312.7
- CARPET	72.6	80.7	84.6	80.7	81.9	79.3	73.7	89.4	87.1	87.8			817.8	804.3
- TEXTILE[f]	30.0	31.2	33.9	31.7	32.0	32.5	27.7	32.3	32.0	32.9			316.2	316.5
POLYESTER - INDUSTRIAL[d]	26.5	29.3	30.7	31.3	29.4	32.3	29.3	29.0	29.5	31.4			298.7	282.9
- TEXTILE[f]	62.9	68.4	67.7	74.3	71.9	70.5	70.2	66.7	69.1	77.5			699.2	701.7
OLEFIN[e]	97.2	101.4	102.4	102.7	102.9	102.8	89.0	99.6	105.1	99.6			1002.7	936.7
TOTAL YARN	**316.7**	**343.1**	**354.1**	**352.9**	**348.9**	**349.8**	**322.3**	**345.8**	**352.0**	**359.1**			**3444.7**	**3354.8**
STAPLE+TOW+FIBERFILL														
NYLON	78.4	81.7	83.6	71.0	77.9	79.3	75.0	90.2	81.3	89.6			808.0	848.0
ACRYLIC+MODACRYLIC	48.5	52.8	55.4	45.4	45.6	47.4	42.1	53.2	51.8	48.8			491.0	498.9
POLYESTER	190.4	200.4	195.3	212.1	195.8	195.7	190.9	195.7	203.1	228.3			2007.7	1960.6
OLEFIN	29.1	29.6	30.7	29.8	31.2	32.4	26.9	32.1	30.2	29.0			301.0	302.2
TOTAL STAPLE	**346.4**	**364.5**	**365.0**	**358.3**	**350.5**	**354.8**	**334.9**	**371.2**	**366.4**	**395.7**			**3607.7**	**3609.7**
TOTAL NONCELLULOSIC	**663.1**	**707.6**	**719.1**	**711.2**	**699.4**	**704.6**	**657.2**	**717.0**	**718.4**	**754.8**			**7052.4**	**6964.5**
TOTAL MAN-MADE FIBER	**711.6**	**759.6**	**775.7**	**766.1**	**754.1**	**758.3**	**705.4**	**771.7**	**770.8**	**808.2**			**7581.5**	**7467.7**
MAN-MADE FIBER END OF MONTH STOCK														
CELLULOSIC														
YARN	12.3	13.3	13.2	14.0	12.8	12.4	13.4	11.6	11.5	12.3			12.3	12.0
RAYON STAPLE	23.5	22.5	20.3	18.0	16.5	13.4	15.5	13.7	13.3	12.6			12.6	16.3
TOTAL CELLULOSIC	**35.8**	**35.8**	**33.5**	**32.0**	**29.3**	**25.8**	**28.9**	**25.3**	**24.8**	**24.9**			**24.9**	**28.3**
NONCELLULOSIC														
YARN+MONOFILAMENTS														
NYLON - INDUSTRIAL[d]	26.6	25.7	23.5	23.3	25.2	24.7	28.1	30.4	30.5	28.6			28.6	22.2
- CARPET	72.0	66.5	67.0	67.1	70.2	71.9	78.0	61.9	58.1	53.3			53.3	47.6
- TEXTILE[f]	54.6	53.1	50.0	49.7	51.2	50.4	55.3	55.2	54.6	52.9			52.9	46.4
POLYESTER - INDUSTRIAL[d]	29.8	29.2	28.8	29.6	30.5	29.2	33.3	32.4	31.4	30.7			30.7	23.5
- TEXTILE[f]	82.5	81.5	79.5	77.3	79.7	82.9	94.4	94.4	90.4	90.0			90.0	86.0
OLEFIN[e]	54.4	55.0	53.5	54.1	54.5	54.0	55.3	53.7	52.0	50.6			50.6	54.1
TOTAL YARN	**319.9**	**311.0**	**302.3**	**301.1**	**311.3**	**313.1**	**344.4**	**328.0**	**317.0**	**306.1**			**306.1**	**279.8**
STAPLE+TOW+FIBERFILL														
NYLON	63.4	64.7	57.5	64.4	60.5	65.2	66.5	60.6	45.3	39.9			39.9	61.7
ACRYLIC+MODACRYLIC	62.4	58.8	55.4	57.9	63.7	67.9	72.8	67.3	62.3	63.1			63.1	63.8
POLYESTER	173.7	168.3	157.8	161.8	167.4	173.7	205.7	194.9	188.6	177.5			177.5	166.5
OLEFIN	32.5	33.7	35.0	35.8	37.8	36.1	38.5	38.4	32.8	34.2			34.2	32.6
TOTAL STAPLE	**332.0**	**325.5**	**305.7**	**319.9**	**329.4**	**342.9**	**383.5**	**361.2**	**329.0**	**314.7**			**314.7**	**324.6**
TOTAL NONCELLULOSIC	**651.9**	**636.5**	**608.0**	**621.0**	**640.7**	**656.0**	**727.9**	**689.2**	**646.0**	**620.8**			**620.8**	**604.4**
TOTAL MAN-MADE FIBER	**687.7**	**672.3**	**641.5**	**653.0**	**670.0**	**681.8**	**756.8**	**714.5**	**670.8**	**645.7**			**645.7**	**632.7**
WOOL & COTTON CONSUMPTION														
APPAREL CLASS WOOL	12.9	11.7	14.1	11.3	11.5	13.5	11.6	9.5	10.5				106.6	117.9
CARPET CLASS WOOL	1.4	1.5	1.6	1.4	1.4	1.1	1.1	1.4	1.5				12.4	10.0
TOTAL RAW WOOL	14.3	13.2	15.7	12.7	12.9	14.6	12.7	10.9	12.0				119.0	127.9
RAW COTTON	300.0	311.4	339.3	278.0	302.6	297.4	226.4	240.6	375.9				2671.6	2813.0

a. "Year to date" totals for stock, are the latest month's figures.
b. The monthly production of each fiber may be calculated as total shipments plus a stock increase, or less a stock decrease, over the month.
c. Producers' total domestic shipments plus export shipments.
d. Industrial is defined as 500 denier and coarser with an Instron tenacity of 7 grams or more per denier.
e. Olefin yarn+monofilaments also includes spunbonded polypropylene and film fiber produced for textile end uses.
f. Includes low denier industrial yarn.

ORDER NOW

And Choose The Alternative

THE TEXTILE ORGANON BOUND VOLUME

Your Own Historical Library for **NOW** . . . And the Future

As a special offer from the Textile Economics Bureau, orders are now being taken for the ***1988 Textile Organon Bound Volume.*** Copies are personalized at no extra charge.

These hard cover bound volumes provide an inexpensive organized alternative for your library or data center.

Your worn or missing single issues can be replaced by one convenient reference book containing all 12 monthly issues bound into their proper order.

☐ Yes, I would like to order the following ***Textile Organon Bound Volume(s)*** for the year(s):

_____

_____

PRICE LIST:

$ 100.00 for 1988 Bound Volume*
$ 85.00 for 1987 Bound Volume
$ 80.00 for 1986 Bound Volume
$ 60.00 for 1985 Bound Volume
$ 50.00 for each 1982-1984 Bound Volume
$ 35.00 for 1981 Bound Volume
$ 30.00 for 1980 Bound Volume
$ 15.00 for each 1970-1979 Bound Volume
$ 10.00 for each 1969 & Earlier Bound Volume

☐ *Yes, personalize my ***1988 Bound Volume.*** (Please submit order by 1/15/89)

My name should appear as follows:

_____

_____

Please enclose a check with your order

Send my order to:

Name _____ Title _____

Company _____

Address _____

City _____ State _____ Zip _____

Country _____

FOLD HERE

FROM: _____

_____

_____

_____

Place Stamp Here

TEXTILE ECONOMICS BUREAU, INC.
101 EISENHOWER PARKWAY
ROSELAND, N.J. 07068

FOLD HERE

C8850-1
1/10/89

TEXTILE ORGANON

Volume 59, No. 12 ☐ December 1988

A publication of *Textile Economics Bureau, Inc.*

Highlights

- Worldwide Natural Fiber Survey... begins on page 259.
- November 1988 Capacity Survey Analysis... begins on page 265.

SHIPMENTS:

Total manufactured fiber shipments in November declined 4% from October's level to reach 776 million pounds. Contributing to the decline were cellulosic fiber, down 14% to 46 million pounds and noncellulosic fiber, down 3% to 730 million pounds.

Total shipments were ahead 58 million pounds, or 8%, when compared with the levels of the previous November. Nylon carpet yarn up 17 million pounds, polyester staple up 10 million pounds and olefin staple up 9 million pounds contributed significantly to that gain.

For the year to date, total shipments reached 8,358 million pounds, or a level 2% ahead of the previous year's period. For the year to date, the three products with the largest gains are olefin yarn up 64 million pounds, polyester staple up 57 million pounds, and nylon carpet yarn up 30 million pounds.

TABLE 1:
TOTAL U.S. MANUFACTURED FIBER SHIPMENTS
MILLION POUNDS & *PERCENT CHANGE*

ITEM	1988 NOV	1988 OCT	% CHG 11-88/10-88	1987 NOV	% CHG 11-88/11-87	YEAR TO DATE 1988	YEAR TO DATE 1987	% CHG YTD 1988/1987
CELLULOSIC								
YARN	17.0	18.6	*-8.6*	15.7	*+8.3*	196.7	172.8	*+13.8*
RAYON STAPLE	29.1	34.8	*-16.4*	32.8	*-11.3*	378.5	378.9	*-0.1*
TOTAL CELLULOSIC	**46.1**	**53.4**	***-13.7***	**48.5**	***-4.9***	**575.2**	**551.7**	***+4.3***
NONCELLULOSIC								
YARN+MONOFILAMENT								
NYLON - INDUSTRIAL	33.7	29.9	*+12.7*	30.3	*+11.2*	343.8	343.0	*+0.2*
- CARPET	82.2	87.8	*-6.4*	65.3	*+25.9*	900.0	869.6	*+3.5*
- TEXTILE[a]	34.0	32.9	*+3.3*	31.2	*+9.0*	350.2	347.7	*+0.7*
POLYESTER - INDUSTRIAL	28.7	31.4	*-8.6*	27.1	*+5.9*	327.4	310.0	*+5.6*
- TEXTILE[a]	79.0	77.7	*+1.7*	72.4	*+9.1*	778.4	774.1	*+0.6*
OLEFIN	95.6	99.6	*-4.0*	97.4	*-1.8*	1098.3	1034.1	*+6.2*
TOTAL YARN	**353.2**	**359.3**	***-1.7***	**323.7**	***+9.1***	**3798.1**	**3678.5**	***+3.3***
STAPLE+TOW+FIBERFILL								
NYLON	77.9	89.6	*-13.1*	71.4	*+9.1*	885.9	919.4	*-3.6*
ACRYLIC+MODACRYLIC	50.1	48.8	*+2.7*	43.5	*+15.2*	541.1	542.4	*-0.2*
POLYESTER	209.0	228.3	*-8.5*	199.4	*+4.8*	2216.7	2160.0	*+2.6*
OLEFIN	39.3	29.2	*+34.6*	30.8	*+27.6*	340.5	333.0	*+2.3*
TOTAL STAPLE	**376.3**	**395.9**	***-5.0***	**345.1**	***+9.0***	**3984.2**	**3954.8**	***+0.7***
TOTAL NONCELLULOSIC	**729.5**	**755.2**	***-3.4***	**668.8**	***+9.1***	**7782.3**	**7633.3**	***+2.0***
TOTAL MANUFACTURED FIBER	**775.6**	**808.6**	***-4.1***	**717.3**	***+8.1***	**8357.5**	**8185.0**	***+2.1***
TOTAL SHIPMENTS DIVIDED AS -								
DOMESTIC SHIPMENTS[b]	715.2	752.4	*-4.9*	675.8	*+5.8*	7797.9	7683.9	*+1.5*
EXPORTS[c]	60.4	56.2	*+7.5*	41.5	*+45.5*	559.6	501.1	*+11.7*

a. Includes low denier industrial yarn.
b. Includes olefin exports.
c. Excludes olefin exports.

Textile Organon

A Monthly Review

December 1988

CONTENTS

Features

Worldwide Natural Fiber Survey 259 - 264
- Worldwide Production, Consumption, Export & Carryover of Raw Cotton 259
- Worldwide Raw Cotton Production by Producing Countries 260
- Worldwide Raw Cotton Consumption by Consuming Countries 261
- Supply and Distribution of Domestic & Foreign Raw Cotton in the U.S. 262
- U.S. Calendar Year Imports & Exports of Raw Cotton & Cotton Products 262
- U.S Cotton Acreage & Yield 263
- Worldwide Raw Wool Production by Principal Producing Countries 263
- Supply & Demand of Wool in the U.S. 264

November 1988 Capacity Survey Analysis 265-269
- Graph 1: Apparel Fiber Production vs. Capacity 265
- U.S. Manufactured Fiber Production & Producing Capacity 266
- Noncellulosic Fiber Capacity Detail 267
- Worldwide Manufactured Fiber Production & Producing Capacity 268
- Graph 2: Worldwide Manufactured Fiber Production 269
- Graph 3: Worldwide Manufactured Fiber Producing Capacity 269

Industry Regulars

Total U.S. Manufactured Fiber Shipments 257

Quarterly Manufactured Fiber Data 270 - 271
- Filament Yarn Domestic Shipments 270
- Staple+Tow Domestic Shipments 271

Monthly U.S. Manufactured Fiber Data 272-274
- Imports by Fiber 272
- Exports by Fiber 273
- Imports by Country of Origin 274

Selected U.S. Monthly Fiber Data 275

Annual Index Volume Fifty-Nine 276-280

TEXTILE ECONOMICS BUREAU, INC.
President
Rosemarie D. Frick

Editor, Textile Organon
David S. Morey

Publishing Headquarters:
Textile Economics Bureau, Inc.
101 Eisenhower Parkway
Roseland, NJ 07068
U.S.A.
Telephone: (201) 228-1107
Facsimile: (201) 228-7598

ISSN 0040-5132

Copyright © 1988
Textile Economics Bureau, Inc.

TEXTILE ORGANON is published monthly. All rights reserved. This booklet may be reproduced in part if credit is given.

Subscription Rates
(payable in U.S. dollars with order):

ITEM	U.S.A.	OTHER
Annually (1 year only)	160.00	230.00
Schools & Nonprofit	60.00	85.00
Single Issues:		
June	60.00	90.00
September	60.00	90.00
All Others	30.00	50.00

Issues are sent by 1st class mail to U.S. subscribers and by airmail to foreign subscribers.

New Subscription Rates - Effective January 1, 1989
(payable in U.S. dollars with order):

ITEM	U.S.A.	OTHER
Annually (1 year only)	175.00	250.00
Schools & Nonprofit	75.00	125.00
Single Issues:		
June	100.00	150.00
September	60.00	90.00
All Others	30.00	50.00

WORLDWIDE NATURAL FIBER SURVEY

For the season beginning August 1, 1987, worldwide production of cotton reached 80 million bales, a gain of 14% over the previous season. The two largest producers, the People's Republic of China and the United States, each had the large increases in production and together account for 86% of the worldwide gain. Worldwide consumption at 83 million bales exceeded production by 3 million bales, reducing the carryover to the 1988 season.

Cotton production in the United States grew 52% during the 1987 season to reach 15 million bales. At that level, production exceeded consumption and exports by one-half million bales, increasing the carryover of raw cotton. Although the U.S. has a net export balance of raw cotton, there was a net import balance of cotton yarn and manufactured goods equal to 4 million bales in 1987.

In 1987, worldwide production of raw wool (greasy basis) grew 4% over the 1986 level to reach 7,004 million pounds. Australia with 29% of world wool production increased output by 71 million pounds. The remaining major wool producing nations which grow over half the world's supply increased output 42 million pounds. The major portion of the increase or 145 million pounds came from the "other" nations that acount for only 18% of world wool production.

Raw wool production in the United States increased 2 million pounds over the 1986 level to reach 88 million pounds. That increase was not enough to change this country's 1% share of worldwide raw wool production.

TABLE 2:
WORLDWIDE PRODUCTION, CONSUMPTION, EXPORT & CARRYOVER OF RAW COTTON
MILLION BALES[a] & *PERCENT*

SEASON BEGINNING	PRODUCTION[b]						CONSUMPTION[c]						EXPORT[d]						CARRYOVER[e]					
	TOTAL		U.S.A.		FOREIGN		TOTAL		U.S.A.		FOREIGN		TOTAL		U.S.A.		FOREIGN		TOTAL		U.S.A		FOREIGN	
AUGUST 1	BALES	%	BALES	%	BALES	%	BALES	%	BALES	%	BALES	%	BALES	%	BALES	%	BALES	%	BALES	%	BALES	%	BALES	%
1950-1954 f	38.4	100	14.0	37	24.4	63	37.2	100	9.3	25	27.9	75	12.4	100	4.0	32	8.4	68	17.0	100	5.4	32	11.6	68
1955-1959 f	43.9	100	12.9	30	31.0	70	44.2	100	8.7	20	35.5	80	14.7	100	5.1	35	9.6	65	22.7	100	10.9	48	11.8	52
1960-1964 f	48.7	100	14.9	31	33.8	69	47.2	100	8.7	18	38.7	82	16.6	100	5.0	30	11.6	70	21.7	100	9.3	43	12.4	57
1965-1969 f	52.3	100	10.6	20	41.7	80	54.0	100	8.9	17	45.1	83	17.4	100	3.6	21	13.8	79	26.7	100	11.3	42	15.4	58
1970-1974 f	60.9	100	11.8	19	49.1	81	58.8	100	7.5	13	51.3	87	20.0	100	4.5	23	15.5	77	23.0	100	4.3	19	18.7	81
1975-1979 f	59.7	100	11.8	20	47.9	80	62.1	100	6.7	11	55.4	89	19.8	100	5.8	29	14.0	71	26.5	100	4.3	16	22.2	84
1980-1984 f	70.6	100	11.9	17	58.7	83	67.0	100	5.6	8	61.4	92	20.1	100	6.1	30	14.0	70	23.5	100	4.6	20	18.9	80
1977	63.5	100	14.4	23	49.1	77	60.4	100	6.5	11	53.9	89	19.3	100	5.5	28	13.8	72	23.2	100	2.9	13	20.3	88
1978	59.4	100	10.9	18	48.5	82	63.2	100	6.4	10	56.8	90	19.9	100	6.2	31	13.7	69	26.6	100	5.3	20	21.3	80
1979	64.6	100	14.6	23	50.0	77	65.1	100	6.5	10	58.6	90	23.2	100	9.2	40	14.0	60	23.3	100	4.0	17	19.3	83
1980	63.7	100	11.1	17	52.6	83	65.3	100	5.9	9	59.4	91	19.9	100	5.9	30	14.0	70	22.9	100	3.0	13	19.9	87
1981	69.1	100	15.6	23	53.5	77	65.1	100	5.3	8	59.8	92	21.0	100	6.6	31	14.4	69	21.1	100	2.7	13	18.4	87
1982	66.4	100	12.0	18	54.4	82	66.5	100	5.5	8	61.0	92	18.6	100	5.2	28	13.4	72	24.3	100	6.6	27	17.7	73
1983	65.7	100	7.8	12	57.9	88	68.2	100	5.9	9	62.3	91	20.0	100	6.8	34	13.2	66	25.3	100	7.9	31	17.4	69
1984	88.2	100	13.0	15	75.2	85	70.0	100	5.5	8	64.5	92	20.8	100	6.2	30	14.6	70	23.7	100	2.8	12	20.9	88
1985	80.1	100	13.4	17	66.7	83	76.3	100	6.4	8	69.9	92	20.5	100	2.0	10	18.5	90	42.7	100	4.1	10	38.6	90
1986	70.8	100	9.7	14	61.1	86	83.7	100	7.5	9	76.2	91	26.7	100	6.7	25	20.0	75	47.8	100	9.3	19	38.5	81
1987 g	80.5	100	14.8	18	65.7	82	83.2	100	7.7	9	75.5	91	24.1	100	6.6	27	17.5	73	34.8	100	5.0	14	29.8	86
1988 g	86.4	100	14.9	17	71.5	83	83.4	100	7.0	8	76.4	92	22.8	100	4.7	21	18.1	79	32.1	100	5.6	17	26.5	83

SOURCE: International Cotton Advisory Committee.
For earlier years' data, see the October 1960 and 1969 ***Textile Organon*** issues, pages 167 & 176.

a. As 480-pound bales.
b. Refers to actual ginnings or pressings during the August-July crop year. In some countries, estimates of household consumption are included in production estimates. U.S. production also includes city crop. Note the U.S. production shown in the table on page 262 includes only the ginnings until the 1982 crop year.
c. Includes raw cotton consumed in spinning mills and other factories plus estimates of household consumption.
d. Means the export of domestically produced cotton.
e. Includes mill stocks, port stocks and stocks in transit, etc. U.S.A. means the carryover of U.S. cotton in the world regardless of where located; FOREIGN means the carryover of foreign cotton in the world regardless of where located.
f. Five-year averages.
g. The 1987 & 1988 data are preliminary or estimated.

TABLE 3:
WORLDWIDE RAW COTTON PRODUCTION BY PRODUCING COUNTRIES [a]

THOUSAND BALES & *PERCENT*

SEASON BEGINNING AUGUST 1	WORLD TOTAL		NORTH & SOUTH AMERICA												CHINA PRC & E. EUROPE					
			BRAZIL		MEXICO		U.S.A.		OTHER N.A.[b]		OTHER S.A.[c]		TOTAL		CHINA[d]		U.S.S.R.[e]		TOTAL	
	BALES	%	BALES	%	BALES	%	BALES	%	BALES	%	BALES	%	BALES	%	BALES	%	BALES	%	BALES	%
1950-1954	38403	100	1666	4.3	1340	3.5	14046	36.6	179	0.5	1170	3.0	18401	47.9	4480	11.6	5951	15.5	10431	27.1
1955-1959	43898	100	1490	3.4	2049	4.7	12945	29.5	423	1.0	1321	3.0	18228	41.6	7260	16.5	6937	15.8	14197	32.3
1960-1964	48651	100	2218	4.6	2189	4.5	14861	30.5	930	1.9	1637	3.4	21835	44.9	5277	10.8	7536	15.5	12813	26.3
1965-1969	52295	100	2668	5.1	2202	4.2	10573	20.2	1044	2.0	1558	3.0	18045	34.5	8218	15.7	9253	17.7	17471	33.4
1970-1974	60905	100	2745	4.5	1726	2.8	11777	19.3	1274	2.1	1852	3.1	19374	31.8	10448	17.2	11311	18.6	21759	35.8
1975-1979	59711	100	2364	4.0	1328	2.2	11751	19.7	1458	2.4	2208	3.7	19109	32.0	10033	16.8	11947	20.0	21980	36.8
1980-1984	70637	100	3165	4.5	1210	1.7	11896	16.8	900	1.3	2006	2.8	19177	27.1	18675	26.4	11209	15.9	29884	42.3
1977	63515	100	2237	3.5	1620	2.6	14389	22.7	1672	2.6	2623	4.1	22541	35.5	9420	14.8	12219	19.2	21639	34.0
1978	59446	100	2623	4.4	1563	2.6	10856	18.3	1654	2.8	2093	3.5	18789	31.6	9968	16.8	11752	19.8	21720	36.6
1979	64642	100	2650	4.1	1509	2.3	14629	22.6	1139	1.8	2218	3.4	22145	34.2	10145	15.7	12132	18.8	22277	34.5
1980	63741	100	2862	4.5	1620	2.6	11122	17.4	1189	1.9	2001	3.1	18794	29.5	12429	19.5	12302	19.3	24731	38.8
1981	69125	100	2941	4.3	1440	2.1	15646	22.6	911	1.3	2076	3.0	23014	33.3	13779	19.9	11309	16.4	25088	36.3
1982	66436	100	2976	4.5	840	1.3	11963	18.0	805	1.2	1329	2.0	17913	27.0	16695	25.1	10427	15.7	27122	40.8
1983	65684	100	2615	4.0	1038	1.6	7771	11.8	811	1.2	1955	3.0	14190	21.6	21508	32.7	10028	15.3	31536	48.0
1984	88199	100	4431	5.0	1110	1.3	12982	14.7	777	0.9	2669	3.0	21969	24.9	28966	32.8	11977	13.6	40943	46.4
1985	80114	100	3644	4.5	1010	1.3	13432	16.8	586	0.7	2177	2.7	20849	26.0	19288	24.1	12823	16.0	32111	40.1
1986	70822	100	2909	4.1	638	0.9	9731	13.8	439	0.6	1926	2.7	15643	22.1	16516	23.3	12274	17.3	28790	40.6
1987 f	80471	100	3491	4.3	1025	1.3	14760	18.3	471	0.6	3240	4.0	22987	28.5	19755	24.5	11405	14.2	31160	38.7
1988 f	86408	100	3963	4.6	1161	1.3	14934	17.3	457	0.5	2690	3.1	23205	26.8	20907	24.2	12660	14.7	33567	38.9

SEASON BEGINNING AUGUST 1	WEST EUROPE TOTAL[g]		ASIA & OCEANIA										AFRICA							
			INDIA		PAKISTAN		TURKEY		OTHER[h]		TOTAL		EGYPT		SUDAN		OTHER[i]		TOTAL	
	BALES	%	BALES	%	BALES	%	BALES	%	BALES	%	BALES	%	BALES	%	BALES	%	BALES	%	BALES	%
1950-1954	230	0.6	3432	8.9	1330	3.5	642	1.7	727	1.9	6131	16.0	1713	4.5	387	1.0	1110	2.9	3210	8.4
1955-1959	525	1.2	4012	9.1	1381	3.2	763	1.7	1114	2.6	7270	16.6	1815	4.1	499	1.1	1364	3.1	3678	8.3
1960-1964	828	1.7	4769	9.8	1663	3.4	1118	2.3	1467	3.0	9017	18.5	2043	4.2	690	1.4	1425	3.0	4158	8.6
1965-1969	761	1.5	4850	9.3	2268	4.3	1787	3.4	1791	3.4	10696	20.4	2196	4.2	942	1.8	2184	4.2	5322	10.2
1970-1974	791	1.3	5410	8.9	2993	4.9	2379	3.9	2311	3.8	13093	21.5	2259	3.7	1051	1.7	2578	4.2	5888	9.6
1975-1979	789	1.3	5700	9.5	2536	4.3	2291	3.9	2288	3.8	12815	21.5	1928	3.2	660	1.1	2430	4.1	5018	8.4
1980-1984	821	1.2	6619	9.4	3480	4.9	2369	3.3	2808	4.0	15276	21.6	2110	3.0	817	1.2	2554	3.6	5480	7.8
1977	919	1.5	5548	8.7	2643	4.2	2639	4.2	2535	4.0	13365	21.1	1832	2.9	911	1.4	2308	3.6	5051	7.9
1978	848	1.4	6191	10.4	2176	3.7	2191	3.7	2390	4.0	12948	21.8	2014	3.4	637	1.0	2490	4.2	5141	8.6
1979	654	1.0	6260	9.7	3344	5.2	2191	3.4	2422	3.7	14217	22.0	2221	3.5	523	0.8	2605	4.0	5349	8.3
1980	821	1.3	6256	9.8	3281	5.1	2297	3.6	2271	3.6	14105	22.1	2428	3.8	446	0.7	2416	3.8	5290	8.3
1981	878	1.3	6559	9.5	3435	5.0	2242	3.2	2729	3.9	14965	21.6	2293	3.3	712	1.0	2175	3.2	5180	7.5
1982	715	1.1	6481	9.7	3783	5.7	2246	3.4	2711	4.1	15221	22.9	2115	3.2	959	1.4	2391	3.6	5465	8.2
1983	780	1.2	5870	8.9	2271	3.5	2398	3.7	2979	4.5	13518	20.6	1879	2.9	1034	1.5	2747	4.2	5660	8.6
1984	910	1.0	7927	9.0	4631	5.3	2664	3.0	3349	3.8	18571	21.1	1833	2.1	933	1.1	3040	3.4	5806	6.6
1985	1078	1.3	8979	11.2	5587	7.0	2379	3.0	3486	4.4	20431	25.6	1999	2.5	652	0.8	2994	3.7	5645	7.0
1986	1331	1.9	7418	10.5	6061	8.5	2379	3.4	3042	4.3	18900	26.7	1850	2.6	757	1.1	3551	5.0	6158	8.7
1987 f	1210	1.5	6793	8.4	6738	8.4	2465	3.1	3118	3.9	19114	23.8	1615	2.0	684	0.9	3701	4.6	6000	7.5
1988 f	1539	1.8	8719	10.1	6615	7.7	2984	3.4	3491	4.0	21809	25.2	1797	2.1	615	0.7	3876	4.5	6288	7.3

SOURCE: International Cotton Advisory Committee.

a. As 480 pound bales.
b. Baleages are principally from El Salvador, Guatemala & Nicaragua.
c. Baleages are principally from Argentina, Colombia, Paraguay & Peru.
d. Figures include nominal baleages for North Korea & Vietnam.
e. Figures include nominal baleages for Albania, Bulgaria & Yugoslavia.
f. Data are preliminary.
g. Baleages are principally from Greece & Spain.
h. Baleages are chiefly from Australia, Iran, Israel & Syria.
i. Burkina Faso, Ivory Coast, Mali, South Africa, Tanzania & Zimbabwe are leading producing countries.

TABLE 4:
WORLDWIDE RAW COTTON CONSUMPTION BY CONSUMING COUNTRIES
THOUSAND BALES & *PERCENT* [a]

SEASON BEGINNING AUGUST 1	WORLD TOTAL		NORTH & SOUTH AMERICA												CHINA PRC & E. EUROPE					
			BRAZIL		MEXICO		U.S.A.		OTHER N.A.		OTHER S.A.		TOTAL		CHINA [b]		E. EUROPE [c]		TOTAL	
	BALES	%	BALES	%	BALES	%	BALES	%	BALES	%	BALES	%	BALES	%	BALES	%	BALES	%	BALES	%
1950-1954	37166	100	873	2.3	339	0.9	9317	25.1	423	1.1	803	2.2	11755	31.6	4460	12.0	6222	16.8	10682	28.8
1955-1959	44222	100	1093	2.5	472	1.1	8709	19.7	426	1.0	971	2.2	11671	26.5	7220	16.3	7793	17.6	15013	33.9
1960-1964	47384	100	1264	2.7	537	1.1	8704	18.4	548	1.2	1060	2.2	12113	25.6	5869	12.4	9142	19.3	15011	31.7
1965-1969	53813	100	1271	2.4	677	1.2	8939	16.6	604	1.1	1178	2.2	12669	23.5	8541	15.9	10655	19.8	19196	35.7
1970-1974	58805	100	1624	2.8	772	1.3	7513	12.8	569	1.0	1368	2.3	11846	20.2	11094	18.9	11634	19.8	22728	38.7
1975-1979	62057	100	2289	3.7	768	1.2	6653	10.7	552	0.9	1411	2.3	11673	18.8	12418	20.0	11810	19.0	24228	39.0
1980-1984	67013	100	2628	3.9	636	1.0	5627	8.4	566	0.8	1208	1.8	10665	15.9	16262	24.3	11402	17.0	27664	41.3
1977	60435	100	2232	3.7	737	1.2	6483	10.7	536	0.9	1444	2.4	11432	18.9	12214	20.2	11823	19.6	24037	39.8
1978	63210	100	2456	3.9	757	1.2	6352	10.0	565	0.9	1432	2.3	11562	18.3	13397	21.2	11831	18.7	25228	39.9
1979	65116	100	2591	4.0	757	1.2	6506	10.0	574	0.9	1398	2.1	11826	18.2	14146	21.7	11866	18.2	26012	39.9
1980	65281	100	2601	4.0	759	1.2	5891	9.0	579	0.9	1209	1.8	11039	16.9	15198	23.3	11713	17.9	26911	41.2
1981	65090	100	2631	4.0	708	1.1	5264	8.1	472	0.7	1083	1.7	10158	15.6	16505	25.3	11170	17.2	27675	42.5
1982	66535	100	2603	3.9	630	0.9	5513	8.3	583	0.9	1090	1.6	10419	15.6	16809	25.3	10919	16.4	27728	41.7
1983	68174	100	2553	3.8	528	0.8	5926	8.7	622	0.9	1252	1.8	10881	16.0	16495	24.2	11177	16.4	27672	40.6
1984	69983	100	2753	3.9	556	0.8	5540	7.9	575	0.8	1405	2.0	10829	15.4	16303	23.3	12030	17.2	28333	40.5
1985	76255	100	3180	4.2	634	0.8	6399	8.4	620	0.8	1625	2.1	12458	16.3	18778	24.6	12631	16.6	31409	41.2
1986	83690	100	3485	4.2	550	0.7	7452	8.9	595	0.7	1692	2.0	13774	16.5	20673	24.7	12927	15.4	33600	40.1
1987 g	83214	100	3500	4.2	683	0.8	7700	9.3	596	0.7	1707	2.1	14186	17.1	19226	23.1	12638	15.2	31864	38.3
1988 g	83433	100	3600	4.3	717	0.9	7000	8.4	619	0.7	1744	2.1	13680	16.4	20145	24.1	12754	15.3	32899	39.4

SEASON BEGINNING AUGUST 1	WEST EUROPE TOTAL [d]		ASIA & OCEANIA														AFRICA	
			INDIA		PAKISTAN		TURKEY		JAPAN		KOREA		TAIWAN		OTHER [e]		TOTAL		TOTAL [f]	
	BALES	%	BALES	%	BALES	%	BALES	%	BALES	%	BALES	%	BALES	%	BALES	%	BALES	%	BALES	%
1950-1954	6909	18.6	3731	10.0	334	0.9	319	0.9	2013	5.4	143	0.4	82	0.2	738	2.0	7360	19.8	460	1.2
1955-1959	7155	16.2	4407	10.0	945	2.1	503	1.1	2590	5.9	257	0.6	143	0.3	856	1.9	9701	21.9	682	1.5
1960-1964	7163	15.1	4906	10.4	1199	2.5	552	1.2	3331	7.0	296	0.6	254	0.5	1523	3.2	12061	25.4	1036	2.2
1965-1969	6511	12.1	5078	9.4	1668	3.1	732	1.4	3340	6.2	408	0.8	408	0.8	2178	4.0	13812	25.7	1624	3.0
1970-1974	5897	10.0	5414	9.2	2184	3.7	971	1.7	3471	5.9	609	1.0	643	1.1	2844	4.8	16136	27.4	2198	3.7
1975-1979	5534	8.9	5697	9.2	1987	3.2	1358	2.2	3240	5.2	1178	1.9	972	1.6	3557	5.7	17989	29.0	2633	4.3
1980-1984	5464	8.2	6430	9.6	2339	3.5	1602	2.4	3284	4.9	1564	2.3	1179	1.8	3927	5.9	20324	30.3	2895	4.3
1977	5206	8.6	5288	8.7	1872	3.1	1364	2.3	3075	5.1	1160	1.9	941	1.6	3474	5.7	17174	28.4	2586	4.3
1978	5424	8.6	5715	9.0	1975	3.1	1394	2.2	3334	5.3	1285	2.0	994	1.6	3575	5.7	18272	28.9	2724	4.3
1979	5629	8.6	5944	9.1	1898	2.9	1225	1.9	3391	5.2	1554	2.4	1052	1.6	3824	5.9	18888	29.0	2761	4.3
1980	5215	8.0	6258	9.6	2119	3.2	1344	2.1	3286	5.0	1477	2.3	1052	1.6	3635	5.6	19171	29.4	2945	4.5
1981	5103	7.8	5837	9.0	2334	3.6	1429	2.2	3383	5.2	1536	2.4	1091	1.7	3712	5.7	19322	29.7	2832	4.4
1982	5470	8.2	6259	9.4	2426	3.6	1555	2.3	3291	4.9	1553	2.3	1164	1.7	3965	6.0	20213	30.4	2705	4.1
1983	5680	8.3	6651	9.8	2311	3.4	1773	2.6	3277	4.8	1617	2.4	1245	1.8	4142	6.1	21016	30.8	2925	4.3
1984	5853	8.4	7147	10.2	2503	3.6	1908	2.7	3181	4.5	1637	2.3	1341	1.9	4181	6.0	21898	31.3	3070	4.4
1985	5980	7.8	7099	9.3	2449	3.2	2095	2.7	3098	4.1	1811	2.4	1981	2.6	4633	6.1	23166	30.4	3242	4.3
1986	6701	8.0	7870	9.4	3212	3.8	2251	2.7	3431	4.1	1874	2.2	2021	2.4	5701	6.8	26360	31.5	3255	3.9
1987 g	6825	8.2	7750	9.3	3436	4.1	2400	2.9	3550	4.3	1907	2.3	2050	2.5	5896	7.1	26989	32.4	3350	4.0
1988 g	6734	8.1	7850	9.4	3592	4.3	2400	2.9	3215	3.9	1942	2.3	1750	2.1	5907	7.1	26656	31.9	3464	4.2

SOURCE: International Cotton Advisory Committee.

a. As 480 pound bales
b. Includes nominal baleages for North Korea.
c. Principally U.S.S.R.
d. Principally Italy, Germany Fed. Rep. of and Italy.
e. Hong Kong, Indonesia & Thailand are major consumers.
f. Egypt is a major consumer.
g. Data are preliminary.

TABLE 5:
SUPPLY AND DISTRIBUTION OF DOMESTIC & FOREIGN RAW COTTON IN THE U.S. FOR THE SEASONS BEGINNING AUGUST 1ST

THOUSAND RUNNING BALES [a]

SUPPLY & DISTRIBUTION	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988[b]
SUPPLY												
BEGINNING STOCK (AUGUST 1ST)	2928	5347	3958	3000	2668	6632	7937	2775	4102	9348	5026	5600
NET IMPORTS	5	4	5	28	26	20	12	24	33	3	2	2
U.S PRODUCTION (GINNINGS) [c]	14389	10856	14629	10991	15380	11963	7771	12982	13432	9731	14760	14934
CITY CROP (EST) [d]	+	+	+	131	266							
TOTAL SUPPLY	**17322**	**16207**	**18592**	**14150**	**18340**	**18615**	**15720**	**15781**	**17567**	**19082**	**19788**	**20536**
DISTRIBUTION												
NET EXPORTS	5484	6180	9229	5926	6567	5207	6786	6215	1960	6684	6600	4700
U.S. CONSUMPTION	6483	6352	6506	5891	5264	5513	5926	5540	6399	7452	7700	7000
ADJUSTMENT ITEM [e]	8	-283	-143	-335	-123	-42	233	-76	-140	-80	-112	-64
ENDING STOCK (JULY 31ST)	5347	3958	3000	2668	6632	7937	2775	4102	9348	5026	5600	8900
DIVIDED AS-												
PRIVATELY OWNED	4073	3291	2463	1995	NO LONGER AVAILABLE							
GOVERNMENT CONTROLLED [f]	1274	667	537	673								
TOTAL DISTRIBUTION	**17322**	**16207**	**18592**	**14150**	**18340**	**18615**	**15720**	**15781**	**17567**	**19082**	**19788**	**20536**

SOURCES: U.S. Department of Agriculture, *Cotton and Wool Situation and Outlook*, and the National Cotton Council Economic Services. For earlier years' data, see page 178 of the October 1967 ***Textile Organon*** and page 158 of the October 1978 issue.

a. Adjusted to 480-pound net weight bales.
b. Data estimated except for beginning stock.
c. Total ginnings within the crop year shown. Note that U.S. production given in the world tables on page 259 and 260 also includes city crop, etc.
d. Consists of rebaled samples and pickings from cotton damaged by fire and weather (partially estimated).
e. The Census Bureau's difference between supply and distribution resulting from baleage destroyed, cotton in transit, etc.
f. Loan and pooled cotton under CCC and earlier programs.

TABLE 6:
U.S. CALENDAR YEAR IMPORTS & EXPORTS OF RAW COTTON & COTTON PRODUCTS

THOUSAND RUNNING BALES

PRODUCTS	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
IMPORTS											
RAW COTTON [a]	5	4	5	28	26	20	12	24	33	3	2
COTTON YARN	27	63	25	39	48	59	85	110	112	215	275
MANUFACTURED GOODS [b]	1368	1698	1529	1650	1956	1869	2280	2943	3282	3765	4591
TOTAL	**1400**	**1765**	**1559**	**1717**	**2030**	**1948**	**2377**	**3077**	**3427**	**3983**	**4868**
EXPORTS											
RAW COTTON [a]	5484	6180	9229	5926	6567	5207	6786	6215	1960	6684	6582
COTTON YARN	21	42	59	64	45	37	39	23	35	21	28
MANUFACTURED GOODS [b]	749	699	940	1037	720	528	418	406	409	552	593
TOTAL	**6254**	**6921**	**10228**	**7027**	**7332**	**5772**	**7243**	**6644**	**2404**	**7257**	**7203**
IMPORT BALANCE											
COTTON YARN+ MANUFACTURED GOODS [b]	+625	+1020	+555	+588	+1239	+1363	+1908	+2624	+2950	+3407	+4245

SOURCES: U.S. Census Bureau and Department of Agriculture.

Raw cotton data are actual bales. Cotton yarn and manufactured goods data are the USDA raw cotton equivalents of these imports and exports.

a. Raw cotton data are for the crop year.
b. Includes thread, twine, cordage, woven & knit cloth, all types of apparel, home furnishings and other items such as industrial belts and belting, bags, braids and narrow fabrics.

TABLE 7:
U.S. COTTON ACREAGE & YIELD

SEASON BEGINNING AUGUST 1	HARVESTED	YIELD[a]	PRODUCTION
	THOUSAND ACRES	LBS	THOUSAND BALES[b]
1977	13282	520	14389
1978	12400	420	10856
1979	12831	547	14629
1980	13215	404	11122
1981	13841	542	15646
1982	9734	590	11963
1983	7348	508	7771
1984	10380	600	12982
1985	10229	630	13432
1986	8468	552	9731
1987[c]	10035	706	14760
1988[d]	11632	616	14934

SOURCE: International Cotton Advisory Committee.
a. Per harvested acre.
b. Production for the crop year in 480-pound net weight bales, regardless of when ginned. Does not include adjustment for city crop, etc.
c. Preliminary data.
d. International Cotton Advisory Committee estimate.

TABLE 8:
WORLDWIDE RAW WOOL PRODUCTION BY THE PRINCIPAL PRODUCING COUNTRIES[a]
MILLION POUNDS, GREASY BASIS & *PERCENT*

	AUSTRALIA		NEW ZEALAND		SOUTH AFRICA c		ARGENTINA		URUGUAY		UNITED STATES		UNITED KINGDOM		TURKEY		E. EUROPE & CHINA d		ALL OTHERS		WORLD TOTAL	
YEAR[b]	LBS	%	LBS	%	LBS	%	LBS	%	LBS	%	LBS	%	LBS	%	LBS	%	LBS	%	LBS	%	LBS	%
1950 - 54 e	1202	*27.6*	419	*9.6*	272	*6.2*	401	*9.2*	193	*4.4*	289	*6.6*	96	*2.2*	76	*1.8*	667	*15.3*	745	*17.1*	4360	*100*
1955 - 59 e	1537	*29.5*	513	*9.9*	313	*6.0*	406	*7.8*	184	*3.5*	305	*5.9*	113	*2.2*	90	*1.7*	945	*18.1*	800	*15.4*	5206	*100*
1960 - 64 e	1713	*30.2*	607	*10.7*	304	*5.4*	413	*7.3*	187	*3.3*	295	*5.2*	127	*2.2*	98	*1.7*	1132	*20.0*	796	*14.0*	5672	*100*
1965 - 69 e	1836	*30.8*	717	*12.0*	301	*5.0*	454	*7.6*	181	*3.0*	222	*3.7*	123	*2.1*	100	*1.7*	1216	*20.4*	817	*13.7*	5967	*100*
1970 - 74 e	1764	*30.5*	681	*11.8*	246	*4.3*	410	*7.1*	138	*2.4*	169	*2.9*	106	*1.8*	110	*1.9*	1339	*23.2*	813	*14.1*	5776	*100*
1975 - 79 e	1567	*26.6*	707	*12.0*	230	*3.9*	385	*6.5*	145	*2.5*	113	*1.9*	106	*1.8*	122	*2.1*	1549	*26.2*	975	*16.5*	5899	*100*
1980 - 84 e	1614	*25.3*	816	*12.8*	238	*3.7*	358	*5.6*	173	*2.7*	106	*1.7*	116	*1.8*	135	*2.1*	1803	*28.2*	1030	*16.1*	6390	*100*
1977	1493	*25.6*	686	*11.8*	234	*4.0*	379	*6.5*	137	*2.3*	112	*1.9*	101	*1.7*	121	*2.1*	1583	*27.1*	992	*17.0*	5838	*100*
1978	1556	*26.0*	708	*11.8*	225	*3.8*	377	*6.3*	139	*2.3*	104	*1.7*	108	*1.8*	126	*2.1*	1620	*27.1*	1020	*17.1*	5983	*100*
1979	1564	*25.4*	787	*12.8*	227	*3.7*	377	*6.1*	154	*2.5*	106	*1.7*	106	*1.7*	130	*2.1*	1715	*27.8*	1002	*16.2*	6168	*100*
1980	1543	*24.6*	840	*13.4*	231	*3.7*	375	*6.0*	179	*2.8*	108	*1.7*	115	*1.8*	134	*2.1*	1735	*27.6*	1025	*16.3*	6285	*100*
1981	1581	*25.0*	800	*12.6*	242	*3.8*	370	*5.8*	168	*2.6*	112	*1.8*	112	*1.8*	137	*2.2*	1797	*28.4*	1016	*16.0*	6335	*100*
1982	1548	*24.4*	818	*12.9*	249	*3.9*	357	*5.6*	181	*2.9*	108	*1.7*	110	*1.7*	137	*2.2*	1823	*28.7*	1018	*16.0*	6349	*100*
1983	1605	*25.1*	802	*12.5*	238	*3.7*	357	*5.6*	181	*2.8*	104	*1.6*	119	*1.9*	137	*2.1*	1830	*28.6*	1031	*16.1*	6404	*100*
1984	1795	*27.3*	822	*12.5*	231	*3.5*	331	*5.0*	157	*2.4*	97	*1.5*	123	*1.9*	132	*2.0*	1828	*27.8*	1060	*16.1*	6576	*100*
1985	1830	*27.8*	789	*12.0*	216	*3.3*	335	*5.1*	192	*2.9*	90	*1.4*	128	*1.9*	134	*2.0*	1772	*27.0*	1090	*16.6*	6576	*100*
1986	1955	*29.0*	772	*11.5*	198	*2.9*	331	*4.9*	198	*2.9*	86	*1.3*	130	*1.9*	134	*2.0*	1843	*27.3*	1099	*16.3*	6746	*100*
1987 f	2026	*28.9*	783	*11.2*	203	*2.9*	335	*4.8*	198	*2.8*	88	*1.3*	137	*1.9*	134	*1.9*	1856	*26.5*	1244	*17.8*	7004	*100*
1988 f	2099	*29.9*	761	*10.8*	209	*3.0*	364	*5.2*	212	*3.0*	93	*1.3*	146	*2.1*	134	*1.9*	1883	*26.8*	1127	*16.0*	7028	*100*

SOUPCE: The Commonwealth Secretariat, Economic Affairs Division.
a. Apparel plus carpet class shorn wool, as well as pulled wool and wool on skins, mostly at the shorn wool equivalent.
b. Calendar years for Northern Hemisphere nations; season beginning July first or October first for Southern Hemisphere countries.
c. Excludes Lesotho and South West Africa.
d. Includes Albania, Bulgaria, China, P.R.C., Czechoslovakia, Germany, Dem. Rep, Hungary, Outer Mongolia, Poland, Romania, U.S.S.R. and Yugoslavia.
e. Five-year averages.
f. Preliminary estimates.

TABLE 9:
SUPPLY & DEMAND OF WOOL IN THE U.S.[a]
MILLION POUNDS, SCOURED BASIS

ITEM	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
MILL CONSUMPTION OF WOOL											
APPAREL CLASS - DOMESTIC	87.0	91.2	92.1	77.4	142.2	119.7	151.8	153.3	123.0	154.3	154.4
- FOREIGN	34.2	37.3	32.4	47.3							
TOTAL APPAREL CLASS	**121.2**	**128.5**	**124.5**	**127.8**	**142.2**	**119.7**	**151.8**	**153.3**	**123.0**	**154.3**	**154.4**
CARPET CLASS	**12.7**	**13.1**	**9.9**	**10.0**	**10.7**	**9.8**	**10.7**	**9.9**	**11.7**	**10.2**	**13.2**
SUBTOTAL ABOVE [b]	**133.9**	**141.6**	**134.4**	**137.8**	**152.9**	**129.5**	**162.5**	**163.2**	**134.7**	**164.5**	**167.6**
CONSUMED ON THE COTTON SYSTEM [c]	4.1	3.0	2.5	3.8	2.7	1.8	3.3	5.5	4.2	4.1	6.9
TOTAL RAW WOOL	**138.0**	**144.6**	**136.9**	**141.6**	**155.6**	**131.3**	**165.8**	**168.7**	**138.9**	**168.6**	**174.5**
REPROCESSED - CARPET	16.7	16.8	17.0	10.5	10.9	9.8	8.1	7.6	5.3	9.5	7.9
- OTHER											
REUSED - OTHER											
TOTAL ABOVE	**154.7**	**161.4**	**153.9**	**152.1**	**166.5**	**141.1**	**173.9**	**176.3**	**144.2**	**178.1**	**182.4**
WOOL CONTENT OF IMPORTS											
TOPS [d]	0.9	0.6	0.4	0.3	0.3	0.5	0.8	3.2	2.0	1.8	1.0
YARNS	5.8	5.5	3.8	3.9	4.7	7.2	7.6	13.2	12.1	11.8	13.6
CARPETS & RUGS	14.8	13.9	13.9	16.9	18.1	19.6	34.8	51.1	59.2	60.6	51.9
FABRICS [e] [f]	19.1	26.4	22.2	21.5	27.8	25.6	28.1	39.1	37.2	26.5	30.3
KNIT APPAREL	25.8	22.3	19.1	24.4	22.8	25.7	30.3	40.0	65.6	80.2	81.6
OTHER APPAREL	18.3	22.6	20.1	17.3	18.1	20.7	28.5	40.9	71.5	75.4	77.3
OTHER MANUFACTURES [g]	1.2	0.9	1.1	0.8	1.3	0.8	1.8	2.6	2.6	4.2	2.6
TOTAL IMPORTS	**85.9**	**92.2**	**80.6**	**85.1**	**93.1**	**100.1**	**131.9**	**190.1**	**250.2**	**260.5**	**258.3**
WOOL CONTENT OF EXPORTS											
CARPET	2.0	0.7	0.3	0.3	0.2	0.2	0.1	0.1	0.1	0.2	0.1
OTHER	9.5	10.9	13.7	23.5	11.6	10.6	9.6	9.4	15.8	14.0	21.2
TOTAL EXPORTS	**11.5**	**11.6**	**14.0**	**23.8**	**11.8**	**10.8**	**9.7**	**9.5**	**15.9**	**14.2**	**21.3**
NET IMPORTS	**74.4**	**80.6**	**66.6**	**61.3**	**81.3**	**89.3**	**122.2**	**180.6**	**234.3**	**246.3**	**237.0**
TOTAL DISAPPEARANCE	**229.1**	**242.0**	**220.5**	**213.4**	**247.8**	**230.4**	**296.1**	**356.9**	**378.5**	**424.4**	**419.4**
SUPPLY & DEMAND IN CARPETS & RUGS											
CARPET WOOL CONSUMPTION	12.7	13.1	9.9	10.0	10.7	9.8	10.7	9.9	11.7	10.2	13.2
IMPORTS OF CARPETS	14.8	13.9	13.9	16.9	18.1	19.6	34.8	51.1	59.2	60.6	51.9
EXPORTS OF CARPETS	2.0	0.7	0.3	0.3	0.2	0.2	0.1	0.1	0.1	0.2	0.1
TOTAL	**25.5**	**26.3**	**23.5**	**26.6**	**28.6**	**29.2**	**45.4**	**60.9**	**70.8**	**70.6**	**65.0**
% IMPORTS OF TOTAL	*58*	*53*	*59*	*63 1/2*	*63 1/2*	*67*	*76 1/2*	*84*	*83 1/2*	*86*	*80*
SUPPLY & DEMAND IN ALL OTHER PRODUCTS											
OTHER WOOL CONSUMPTION	142.0	148.3	144.0	142.1	155.8	131.3	163.2	166.4	132.5	167.9	169.2
IMPORTS	71.1	78.3	66.7	68.2	75.0	80.5	97.1	139.0	191.0	199.9	206.4
EXPORTS	9.5	10.9	13.7	23.5	11.6	10.6	9.6	9.4	15.8	14.0	21.2
TOTAL	**203.6**	**215.7**	**197.0**	**186.8**	**219.2**	**201.2**	**250.7**	**296.0**	**307.7**	**353.8**	**354.4**
% IMPORTS OF TOTAL	*35*	*36 1/2*	*34*	*35 1/2*	*34*	*40*	*38 1/2*	*47*	*62*	*56 1/2*	*58*

SOURCE: U.S. Department of Agriculture, *Cotton and Wool Situation and Outlook Yearbook.*

a. Calendar years.
b. Agrees with ***Textile Organon's*** Selected U.S. Monthly Fiber Data Tables.
c. Raw wool consumed on the cotton spinning system.
d. Includes advanced wool.
e. Includes pile fabric & manufactures, tapestry & upholstery, press & billiard cloths.
f. Primarily broad woven, plus knit & narrow fabrics after 1984.
g. Includes knit & narrow fabrics until 1985, blankets and miscellaneous manufactures not elsewhere specified.

NOVEMBER 1988 CAPACITY SURVEY ANALYSIS

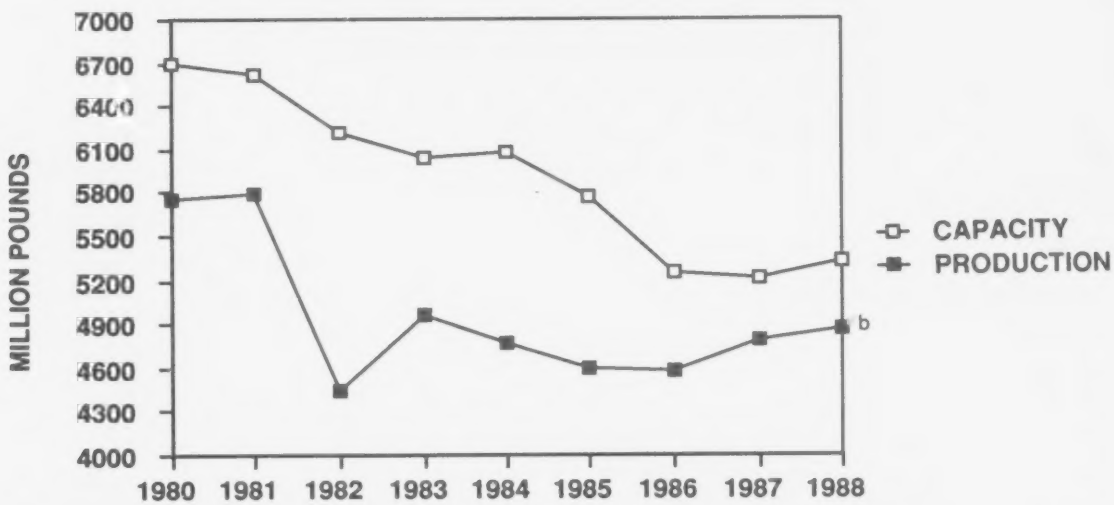
Total producing capacity for all manufactured fiber (except glass fiber) increased 2% from 1987 levels to reach 10,335 million pounds in November, 1988. Of the 246 million pound increase, 242 million pounds are noncellulosic fiber and 4 million pounds are cellulosic fiber. The November 1988 survey revealed capacity expansion plans for 119 million pounds. Of that increase, 95 million pounds will be noncellulosic fiber and 24 million pounds will be cellulosic. (See Table 10)

Since November 1987, noncellulosic filament yarn capacity increased 186 million pounds. Each yarn type showed an increase, with the largest gains being olefin yarn up 68 million pounds, nylon carpet yarn up 48 million pounds and polyester textile yarn up 39 million pounds. (See Table 11)

In the same period, producing capacity for noncellulosic staple+tow increased 56 million pounds. That figure includes a gain of 62 million pounds for polyester staple and a drop of 10 million pounds for acrylic+modacrylic.

Producing capacity and production of five major apparel fibers both increased since 1987, but still remain well below their 1980 levels. Since 1980, the producing capacity of apparel fiber has fallen 20% to 5,330 million pounds and production has declined 15% to 4,873 million pounds.

GRAPH 1:
APPAREL FIBER PRODUCTION VS. CAPACITY [a]



a. Data are based on textile nylon, textile polyester, polyester staple, acrylic+modacrylic and cellulosic yarn+staple. The figures include some production and capacity for polyester staple and acrylic carpet yarn, and industrial rayon.

b. 1988 production data based on 11 months annualized.

HOECHST CELANESE TO EXPAND POLYESTER STAPLE CAPACITY

The Hoechst Celanese Textile Fibers Group will expand polyester staple capacity by 100 million pounds. At the same time they announced that partially oriented polyester yarn (POY) manufacturing will be consolidated at their Shelby NC plant as their Spartenburg SC plant's 118 million pounds of POY capacity is phased out during 1989. - Hoechst Celanese news release

TABLE 10:
U.S. MANUFACTURED FIBER PRODUCTION & PRODUCING CAPACITY
MILLION POUNDS

PERIOD	CELLULOSIC FIBERS							NONCELLULOSIC FIBERS [a]			GRAND TOTAL MANUFACTURED FIBERS EXCLUDING GLASS FIBER			NON-ADD GLASS FIBER [d]
	FILAMENT YARN+MONOFIL			STAPLE+TOW										
	RAYON	ACETATE [b]	TOTAL	RAYON	ACETATE [b]	TOTAL	TOTAL	YARN +MONO	STAPLE +TOW	TOTAL	YARN +MONO [c]	STAPLE +TOW	TOTAL	
ACTUAL ANNUAL PRODUCTION														
1976	68	287	355	475	11	486	841	3306	3320	6626	3661	3806	7467	676
1977	71	282	353	527	8	535	888	3674	3654	7328	4027	4189	8216	787
1978	62	301	363	535	7	542	905	3830	3953	7783	4193	4495	8688	923
1979	57	317	374	549	7	556	930	4155	4282	8437	4529	4838	9367	1014
1980	47	309	356	443	7	450	806	3744	4148	7892	4100	4598	8698	867
1981	48	257	305	461	4	465	770	3815	4191	8006	4120	4656	8776	1041
1982	33	195	228	355	1	356	584	3057	3403	6460	3285	3759	7044	899
1983	36	228	264	375	1	376	640	3568	3970	7538	3832	4346	8178	1169
1984	41	198	239	389	←	389	628	3525	3947	7472	3764	4336	8100	1394
1985			205 g			353 g	558	3790	3773	7563	3995	4126	8121	NA
1986			215 g			404 g	619	3836	3992	7828	4051	4396	8447	NA
1987			191 g			414 g	605	4010	4306	8316	4201	4720	8921	NA
ACTUAL & PROJECTED CAPACITY, ANNUAL RATE, AS OF -														
NOV 1976 e	85	399	484	691	18	709	1193	4878	4254	9132	5362	4963	10325	893
NOV 1977 e	85	315	400	655	8	663	1063	4974	4394	9368	5374	5057	10431	1002
NOV 1978 e	83	330	413	665	8	673	1086	5000	4571	9571	5413	5244	10657	1118
NOV 1979 e	75	355	430	671	8	679	1109	5126	4678	9804	5556	5357	10913	1305
NOV 1980 e	63	324	387	514	8	522	909	4933	4714	9647	5320	5236	10556	1473
NOV 1981 e	52	332	384	509	5	514	898	4766	4950	9716	5150	5464	10614	1561
NOV 1982 e	63	318	381	510	4	514	895	4583	4781	9364	4964	5295	10259	1718
NOV 1983 e	63	268	331	510	4	514	845	4477	4827	9304	4808	5341	10149	1618
NOV 1984 e	63	268	331	510	4	514	845	4509	4981	9490	4840	5495	10335	1743
NOV 1985 e			269 g	510	5	515	784	4698	4890	9588	4967	5405	10372	1769
NOV 1986 e			244 g			465 g	709	4575	4662	9237	4819	5127	9946	1763
NOV 1987 e			244 g			465 g	709	4587	4793	9380	4831	5258	10089	1642
NOV 1988 e			244 g			469 g	713	4773	4849	9622	5017	5318	10335	1729
MAY 1989 f			244 g			476 g	720	4816	4902	9718	5060	5378	10438	1799
NOV 1989 f			244 g			493 g	737	4820	4908	9728	5064	5401	10465	1830
MAY 1990 f			244 g			493 g	737	4899	4733	9632	5143	5226	10369	1930
NOV 1990 f			244 g			493 g	737	4954	4763	9717	5198	5256	10454	1930

NA No longer available.

a. Included are those listed in the November ***Textile Organon*** issue, with the exception of Aramid fiber as of November 1983. Yarn+mono includes olefin film fiber and spunbonded polypropylene. Staple+tow inclides fiberfill.

b. Data include diacetate and triacetate. The acetate staple+tow data do not include the large poundages for cigarette filtration.

c. Grand Total Yarn means the yarn+mono shown, excluding glass fiber.

d. Glass fiber, all types.

e. Actual producing capacity as of the date shown.

f. Future producing capacity planned for certain dates as of MAY 1989.

g. Detail withheld due to disclosure of company data.

TABLE 11:
NONCELLULOSIC FIBER CAPACITY DETAIL
MILLION POUNDS & *AVERAGE DENIER*

	FILAMENT YARN, MONOFIL & OLEFIN FILM FIBER												STAPLE, TOW & FIBERFILL					NON-CELLULOSIC TOTAL
	NYLON+ARAMID				POLYESTER			OLEFIN [a]										
			TEXTILE			TEXTILE							NYLON + ARAMID	ACRYL +MOD ACRYL	POLY-ESTER	OLEFIN + VINYON [f]	TOTAL	
PERIOD	IND	CARP	LBS	DEN	IND	LBS	DEN	YARN	MONO [b]	FILM [b]	OTHER [c]	TOTAL						
NOV 1976 [d]	519	787	552	*54*	442	1701	*133*	178	312	371	16	4878	910	869	2355	120	4254	9132
NOV 1977 [d]	523	829	558	*55*	443	1698	*126*	173	336	398	16	4974	939	869	2470	116	4394	9368
NOV 1978 [d]	510	908	565	*53*	443	1643	*116*	174	347	394	16	5000	1023	865	2554	129	4571	9571
NOV 1979 [d]	513	950	579	*51*	443	1699	*114*	172	342	408	20	5126	1020	839	2679	146	4678	9804
NOV 1980 [d]	515	910	551	*52*	400	1637	*113*	120	350	430	20	4933	991	830	2759	134	4714	9647
NOV 1981 [d]	514	893	553	*49*	316	1481	*114*	178	356	455	20	4766	1010	835	2839	266	4950	9716
NOV 1982 [d]	474	925	513	*53*	338	1265	*119*	209	369	460	30	4583	978	832	2700	271	4781	9364
NOV 1983 [d]	440	907	494	*52*	337	1170	*122*	240	375	484	30	4477	1017	826	2704	280	4827	9304
NOV 1984 [d]	437	926	470	*57*	342	1162	*121*	270	386	486	30	4509	1054	807	2784	336	4981	9490
NOV 1985 [d]	437	965	466	*53*	374	1097	*126*	304	412	613	30	4698	1067	631	2785	407	4890	9588
NOV 1986 [d]	435	964	398	*51*	401	1021	*123*	286	407	633	30	4575	1077	637	2491	457	4662	9237
NOV 1987 [d]	418	1005	404	*49*	399	929	*121*	342	393	667	30	4587	1137	652	2522	482	4793	9380
NOV 1988 [d]	421	1053	423	*49*	408	968	*121*	392	399	679	30	4773	1137	642	2584	486	4849	9622
MAY 1989 [e]	420	1102	426	*48*	420	921	*115*	427	400	670	30	4816	1142	642	2631	487	4902	9718
NOV 1989 [e]	420	1143	431	*48*	420	850	*114*	456	400	670	30	4820	1147	642	2631	488	4908	9728
MAY 1990 [e]	420	1153	436	*48*	426	850	*114*	484	424	676	30	4899	1152	642	2431	508	4733	9632
NOV 1990 [e]	420	1163	441	*48*	426	857	*114*	510	431	676	30	4954	1152	642	2431	538	4763	9717

NOTE: As of the November 1983 survey, nylon capacity data no longer include Aramid Fiber.

IND Industrial yarn and monofil, i.e., 500 denier & coarser, with an Instron tenacity of 7 grams per denier or more.

CARP Bulked continuous filament yarn for carpets.

TEXTILE Yarn & monofil for other (textile) applications. Low denier industrial yarn is tabulated here also.

a. Includes polyethylene & polypropylene. Not included here are data on spunbonded polyethylene, monofilament bristles, film fiber used for decorative or tying ribbons, etc.

b. Includes the circular and rectangular (ribbon) cross sections plus spunbonded polypropylene. Olefin film fiber includes slit and split or fibrillated fiber.

c. Other yarn & monofil is chiefly saran and spandex. Aramid data are included with nylon.

d. Actual producing capacity as of date shown.

e. Future producing capacity planned for certain dates as of MAY 1989.

f. Data since November 1986 do not include Vinyon.

SURVEY COVERAGE & DEFINITIONS

The survey figures shown in the table above cover the manufactured fibers in all their primary forms; i.e., filament yarn, monofilaments, polypropylene spunbonded and film fiber are tabulated as filament yarn, while staple, tow and fiberfill are tabulated as staple. The glass fiber data cover all primary forms of that fiber (yarn and strand, staple yarn and sliver, roving and cake, chopped and milled fiber and mat) although only an aggregate figure is published to avoid disclosure of individual company data. **Glass fiber data are no longer included with the filament yarn totals. The data were last published in the December 1984 issue.** The "capacity" to produce waste is not included in this survey.

Capacity is based on the current and projected "mix" of deniers, filament counts, packages, etc. It is **emphasized** that all figures refer to ***current*** and ***planned*** capacity. **They are not to be interpreted as a production forecast.**

Under the survey definitions, all productive equipment which is currently, or is planned to be, in operable condition is counted as capacity, regardless of whether it is actually producing fiber at the time the capacity measurement is taken. Equipment which is definitely scheduled for scrapping, or which has been scrapped since the last survey, is excluded from the capacity tabulation. The capacity data reflect ***potential***, rather than ***operating*** capacity.

TABLE 12:
WORLDWIDE MANUFACTURED FIBER PRODUCTION & PRODUCING CAPACITY EXCEPT OLEFIN
MILLION POUNDS

MANUFACTURED FIBER PRODUCTION

YEAR	WORLD TOTAL		U.S.A.		WEST EUROPE		EAST EUROPE		JAPAN		CHINA P.R.C.		KOREA REP. OF		TAIWAN		REST OF WORLD	
	POUNDS	%	POUNDS	%	POUNDS	%	POUNDS	%	POUNDS	%	POUNDS	%	POUNDS	%	POUNDS	%	POUNDS	%
1983	30876	*100*	7273	*23*	6454	*21*	5253	*17*	3761	*12*	1139	*4*	1492	*5*	1851	*6*	3653	*12*
1984	32746	*100*	7103	*22*	6733	*20*	5500	*17*	3851	*12*	1571	*5*	1674	*5*	2204	*7*	4110	*12*
1985	34012	*100*	6872	*20*	6903	*20*	5669	*17*	3948	*12*	2011	*6*	1820	*5*	2525	*7*	4264	*13*
1986	34906	*100*	7054	*20*	6780	*19*	5788	*17*	3694	*11*	2185	*6*	1931	*6*	2981	*8*	4493	*13*
1987	36578	*100*	7427	*20*	6819	*19*	6017	*16*	3618	*10*	2469	*7*	2168	*6*	3331	*9*	4729	*13*

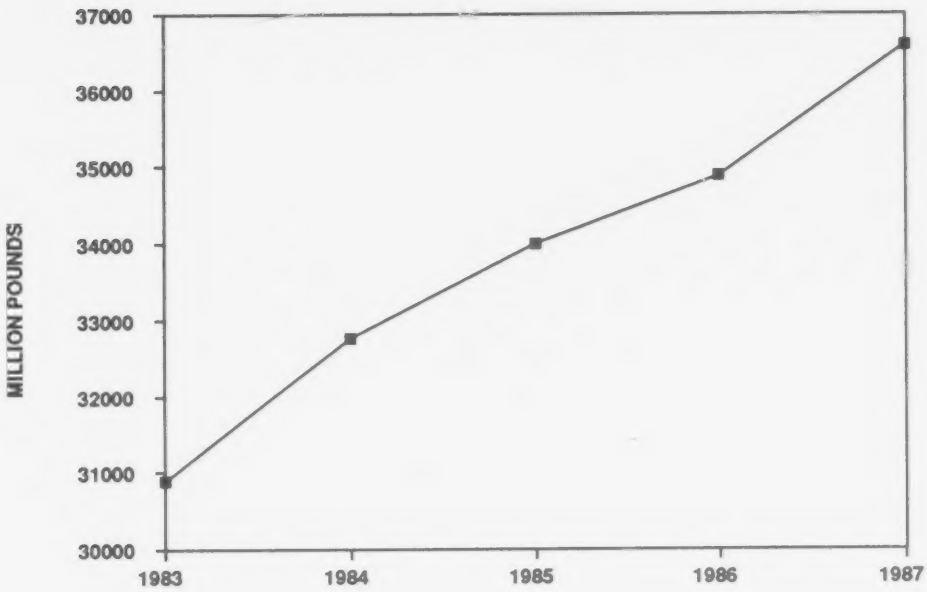
MANUFACTURED FIBER PRODUCING CAPACITY [a]

YEAR	WORLD TOTAL		U.S.A.		WEST EUROPE		EAST EUROPE		JAPAN		CHINA P.R.C.		KOREA REP. OF		TAIWAN		REST OF WORLD	
	POUNDS	%	POUNDS	%	POUNDS	%	POUNDS	%	POUNDS	%	POUNDS	%	POUNDS	%	POUNDS	%	POUNDS	%
1983	38414	*100*	8770	*23*	8173	*21*	6420	*17*	4494	*12*	1797	*5*	1651	*4*	2031	*5*	5078	*13*
1984	39017	*100*	8857	*23*	7964	*20*	6681	*17*	4156	*11*	2189	*6*	1715	*4*	2250	*6*	5205	*13*
1985	41017	*100*	8636	*21*	8102	*20*	7132	*18*	4607	*11*	2310	*6*	1773	*4*	2622	*6*	5835	*14*
1986	42187	*100*	8163	*19*	8116	*19*	7147	*17*	4776	*11*	2302	*6*	1981	*5*	3380	*8*	6322	*15*
1987	42812	*100*	8205	*19*	8189	*19*	7365	*17*	4778	*11*	2474	*6*	2034	*5*	3177	*8*	6590	*15*
1988	44958	*100*	8379	*19*	8293	*18*	7494	*17*	4750	*11*	2901	*6*	2398	*5*	3669	*8*	7074	*16*

SOURCE: ***Textile Organon*** Worldwide Fiber Production & Producing Capacity Survey July 1988, and this issue page 266.

a. Capacity as of November of each year for the U.S.A. and as of March of each year for the other areas.

GRAPH 2:
WORLDWIDE MANUFACTURED FIBER PRODUCTION
(EXCEPT OLEFIN)



GRAPH 3:
WORLDWIDE MANUFACTURED FIBER PRODUCING CAPACITY
(EXCEPT OLEFIN)

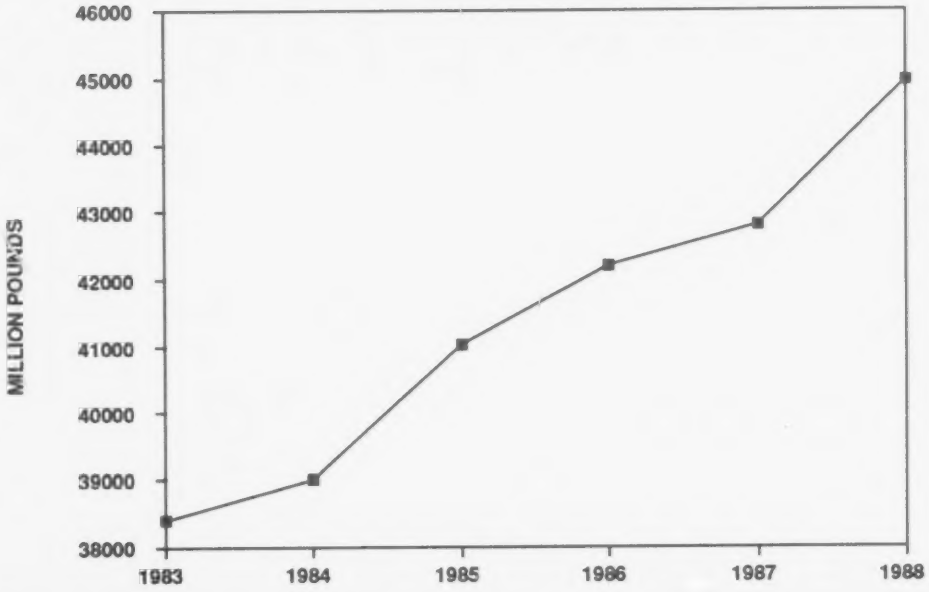


TABLE 13:
FILAMENT YARN DOMESTIC SHIPMENTS [a]

MILLION POUNDS

ITEM		ANNUAL DATA				QUARTERLY DATA 1987				QUARTERLY DATA 1988			
		1984	1985	1986	1987	1ST Q	2ND Q	3RD Q	4TH Q	1ST Q	2ND Q	3RD Q	4TH Q
(C) CELLULOSIC YARN [j]		*(N) NYLON*				*(P) POLYESTER*				*(O) OLEFIN*			
HOSIERY [b]	N	101.5	98.1	95.1	93.2	23.6	23.5	23.8	22.3	23.1	24.9	23.9	
OTHER CIRCULAR KNIT [c]	N	17.6	12.9	21.3	25.3	7.7	7.0	6.1	4.5	7.1	6.4	6.7	
	P	174.7	151.2	150.3	102.8	21.1	28.8	27.3	25.6	25.6	28.2	27.9	
	C	2.3	2.6	2.0	1.1	0.4	0.3	0.2	0.2	0.2	0.2	0.1	
FLAT KNIT	C	67.2	53.0	47.8	27.9	8.7	8.1	5.0	6.1	5.7	7.7	5.8	
	N	135.2	143.6	133.8	131.4	32.0	32.6	33.2	33.6	31.2	33.1	33.2	
	P	137.3	160.8	167.1	162.5	37.5	40.6	41.3	43.1	39.2	43.0	38.6	
CARPET FACE	N	770.2	815.4	881.4	916.0	228.5	235.4	246.1	206.0	228.2	233.8	241.2	
	O	154.1	202.1	215.7	244.5	58.4	60.8	63.0	62.3	65.1	67.9	67.2	
CARPET BACKING [d]	O	227.8	354.6	404.1	425.3	98.1	106.9	110.2	110.1	107.9	113.0	102.1	
OTHER BROAD WOVEN [e]	C	108.8	111.3	126.3	122.8	26.3	31.7	31.4	33.4	31.0	35.2	36.0	
	N	90.7	71.4	76.2	79.4	17.7	19.6	21.4	20.7	20.3	17.6	19.8	
	P	392.2	420.1	344.4	379.4	94.7	97.0	91.8	95.9	89.8	95.5	94.0	
	O	190.3	225.7	271.5	317.7	68.9	77.1	80.3	91.4	84.9	83.7	82.3	
NARROW WOVEN [f]	C	0.7	1.5	2.0	2.2	0.4	0.4	0.4	1.0	1.5	1.1	0.9	
	N	39.9	31.1	33.9	42.1	10.2	11.3	10.6	10.0	11.1	11.1	9.9	
	P	38.7	40.0	44.0	66.2	12.7	17.1	18.7	17.7	15.2	18.9	17.8	
	O	14.9	15.2	17.5	17.7	4.1	3.6	4.6	5.4	4.7	4.8	4.8	
TIRES, INCL. CHAFER [g]	N	172.9	146.0	134.2	143.0	38.8	32.5	35.9	35.8	34.5	33.1	31.2	
	P	174.4	155.5	159.3	162.8	40.1	40.5	40.9	41.3	41.3	44.2	43.4	
OTHER RUBBER INDUSTRY [c g]	N	20.9	15.3	15.2	16.4	3.8	4.4	4.0	4.2	5.5	4.7	4.9	
	P	32.7	31.2	27.2	34.5	8.6	8.8	8.7	8.4	6.7	6.2	6.2	
ROPE, CORDAGE & FISHLINE	N	35.0	35.3	36.4	37.9	9.2	9.8	10.4	8.5	9.7	9.7	8.2	
	P	15.7	13.8	13.0	13.4	3.4	3.1	3.5	3.4	3.7	3.1	2.4	
	O	106.9	108.2	106.3	106.7	25.0	28.2	24.5	29.0	27.9	25.5	23.6	
ALL OTHER [h]	C	1.1	18.7	14.0	12.8	3.4	3.1	3.2	3.1	3.0	3.1	3.0	
	N	54.2	48.3	52.1	69.6	17.8	18.7	14.3	18.8	17.1	21.0	12.1	
	P	179.2	231.7	187.1	191.8	48.7	49.3	48.6	45.2	45.2	52.8	47.9	
	O	31.6	31.8	34.1	23.6	7.0	5.2	4.9	6.5	7.8	7.6	7.7	
TOTAL ABOVE	**C**	**180.1**	**187.1**	**192.1**	**166.8**	**39.2**	**43.6**	**40.2**	**43.8**	**41.4**	**47.3**	**45.8**	
	N	**1438.1**	**1417.4**	**1479.6**	**1554.3**	**399.3**	**394.8**	**405.8**	**364.4**	**387.8**	**395.4**	**391.1**	
	P	**1144.9**	**1204.2**	**1092.4**	**1113.4**	**266.8**	**285.2**	**280.8**	**280.6**	**266.7**	**291.9**	**278.2**	
	O	**725.6**	**937.6**	**1049.2**	**1135.5**	**261.5**	**281.8**	**287.5**	**304.7**	**298.3**	**302.5**	**287.7**	
TOTAL DOMESTIC		**3488.7**	**3746.3**	**3813.3**	**3970.0**	**956.8**	**1005.4**	**1014.3**	**993.5**	**994.2**	**1037.1**	**1002.8**	
ALSO DIVIDED AS													
APPAREL		*1072.1*	*1064.7*	*949.4*	*932.3*	*225.7*	*248.1*	*230.6*	*227.9*	*223.0*	*237.0*	*226.0*	
HOME FURNISHINGS		*1354.2*	*1624.9*	*1746.8*	*1836.3*	*442.0*	*467.1*	*482.5*	*444.7*	*463.0*	*485.0*	*475.1*	
INDUSTRIAL		*1062.4*	*1056.7*	*1117.1*	*1201.4*	*289.1*	*290.2*	*301.2*	*320.9*	*308.2*	*315.1*	*301.7*	
SHIPMENTS OF FEED & PRODUCER-TEXTURED YARN (NONCARPET) [i]													
NYLON		118.7	114.9	115.8	NA	NA	NA	NA	NA	NA	NA	NA	
POLYESTER		675.5	776.3	634.6	626.3	149.3	165.8	156.1	155.1	146.7	159.2	153.8	
OLEFIN		23.3	22.3	22.9	26.6	6.1	6.9	6.0	7.6	6.4	6.4	5.5	

NA No longer available.

a. Filament yarn plus monofilament shipments by primary trade or end use; olefin includes spunbonded polypropylene but does not include spunbonded polyethylene.

b. Small quantities of polyester and cellulosic yarn are included in All Other.

c. Small quantities of olefin are included in All Other.

d. Small quantities of nylon and polyester are included in All Other.

e. Other Broad Woven except carpets, tire fabric, flat belting, etc.

f. Narrow Woven includes apparel ribbons and braids, auto seat belts and/or furniture webbing.

g. Cellulosic yarn quantities included in All Other.

h. All Other includes sewing thread and other industrial applications. The olefin quantities include sliver knit backing. Also includes indirect exports.

i. These quantities are included in the Total Domestic area above.

j. Data for 1984 contain acetate yarn only. Data for 1985-1988 contain acetate and rayon yarn.

TABLE 14:
STAPLE+TOW DOMESTIC SHIPMENTS

MILLION POUNDS

ITEM		ANNUAL DATA				QUARTERLY DATA							
						1987				1988			
		1984	1985	1986	1987	1ST Q	2ND Q	3RD Q	4TH Q	1ST Q	2ND Q	3RD Q	4TH Q
(R) RAYON	*(N) NYLON*	*(A) ACRYLIC+MODACRYLIC*				*(P) POLYESTER*				*(O) OLEFIN*			
HOSIERY, SWEATERS & CRAFT YARNS[a]	A	204.8	197.2	228.8	192.4	57.0	51.4	44.6	39.4	47.5	46.7	46.4	
	NPR	6.6	5.5	5.1	3.5	0.8	0.8	0.9	1.0	0.8	0.7	0.6	
PILE FABRICS[b]	A	30.0	24.5	23.2	20.8	5.6	5.7	5.1	4.4	5.0	5.7	5.6	
	P	18.4	14.9	15.0	19.7	4.4	5.1	6.2	4.0	3.9	3.6	3.3	
OTHER CIRCULAR KNIT + FLAT KNIT[c]	R	4.3	5.5	4.7	3.7	1.2	1.3	0.6	0.6	0.5	0.3	0.8	
	A	118.5	139.1	196.3	185.1	56.7	53.8	42.9	32.7	37.8	39.6	34.2	
	P	283.0	295.5	367.8	453.3	115.2	117.6	106.3	114.2	108.4	112.6	108.5	
BLANKETS[b]	A	25.2	30.2	26.7	25.7	5.9	6.6	7.6	5.6	6.4	5.6	7.9	
	P	5.5	6.2	3.7	9.2	1.3	1.8	2.8	3.3	1.8	1.4	1.6	
OTHER BROAD WOVEN	R	177.7	174.9	218.0	230.7	52.9	55.2	59.9	62.7	58.7	60.5	63.5	
	N	42.5	37.4	37.0	38.7	9.2	8.1	11.1	10.3	8.7	8.0	8.4	
	A	29.5	38.2	35.3	41.7	9.9	10.9	10.1	10.8	10.4	9.6	8.9	
	P	1039.1	864.9	885.6	839.2	205.3	218.1	202.9	212.9	210.7	212.9	205.7	
	O	22.1	26.9	18.0	20.2	4.8	4.7	5.5	5.2	4.6	3.8	3.4	
CARPET FACE YARNS[f]	R	0.3	0.5	0.4	+	+	+	0	0	0.2	0.1	0	
	N	751.0	773.9	837.8	905.1	230.2	239.3	230.6	205.0	f	f	f	
	P	131.4	126.8	145.0	209.0	46.8	50.7	51.4	60.1	66.1	69.0	62.3	
	O	96.5	107.4	117.2	116.2	24.3	28.9	31.5	31.5	30.3	35.4	34.2	
FIBERFILL[d]	P	276.1	281.1	294.9	348.6	88.9	80.7	83.6	95.4	82.1	81.9	92.3	
FLOCK	NP	9.2	5.3	5.9	5.5	1.6	1.0	1.3	1.6	1.6	1.6	1.6	
	R	2.7	1.8	1.8	0.9	0.5	0.4	0	0	+	+	+	
NONWOVENS[e]	R	126.3	113.5	125.4	124.4	31.1	28.6	31.8	32.9	35.4	36.0	26.7	
	N	2.8	2.5	2.1	1.9	0.4	0.4	0.5	0.6	0.4	0.5	0.6	
	P	177.2	162.5	175.3	204.2	48.7	47.7	51.4	56.4	62.9	58.9	59.6	
	[g] VINYON+O	119.2	135.8	166.2	198.0	49.4	50.4	47.8	50.4	46.0	46.9	45.4	
ALL OTHER	R	18.8	25.9	20.8	22.7	6.0	5.3	5.4	6.0	6.9	5.0	2.9	
	N	9.4	11.2	11.9	14.8	4.6	4.4	2.8	3.0	229.0	214.0	231.1	
	A	38.7	29.5	20.9	13.6	5.3	3.2	2.5	2.6	1.9	2.1	4.3	
	P	56.2	116.9	108.3	115.0	23.3	27.6	32.1	32.0	21.5	31.4	17.3	
	[g] VINYON+O	3.1	9.6	11.3	6.7	2.6	1.7	1.3	1.1	2.9	1.5	1.8	
TOTAL ABOVE	**R**	**331.9**	**323.7**	**373.0**	**383.1**	**91.8**	**91.0**	**97.9**	**102.4**	**101.9**	**102.0**	**94.0**	
	N	**814.4**	**830.3**	**894.9**	**966.0**	**246.2**	**253.2**	**246.2**	**220.4**	**239.4**	**223.9**	**241.6**	
	A	**446.7**	**458.7**	**531.2**	**479.3**	**139.4**	**131.6**	**112.8**	**95.5**	**109.0**	**109.3**	**107.3**	
	P	**1992.2**	**1872.7**	**1998.6**	**2201.0**	**534.4**	**549.9**	**537.5**	**579.2**	**558.3**	**572.5**	**551.2**	
	[g] VINYON+O	**240.9**	**279.7**	**312.7**	**341.1**	**81.1**	**85.7**	**86.1**	**88.2**	**83.8**	**87.6**	**84.8**	
TOTAL DOMESTIC		**3826.1**	**3765.1**	**4110.4**	**4370.5**	**1092.9**	**1111.4**	**1080.5**	**1085.7**	**1092.4**	**1095.3**	**1078.9**	
ALSO DIVIDED AS													
APPAREL		*1277.2*	*1255.0*	*1489.3*	*1479.9*	*386.0*	*388.9*	*351.3*	*353.7*	*352.6*	*356.4*	*340.5*	
HOME FURNISHINGS		*1559.0*	*1536.9*	*1625.8*	*1755.8*	*425.1*	*450.6*	*448.3*	*431.8*	*451.5*	*445.9*	*455.5*	
INDUSTRIAL		*989.9*	*973.2*	*995.3*	*1134.8*	*281.8*	*271.9*	*280.9*	*300.2*	*288.3*	*293.0*	*282.9*	

a. Olefin quantities are included in All Other.
b. Rayon and nylon quantities are included in All Other.
c. Nylon quantities are included in All Other.
d. Rayon, acrylic and nylon quantities are included in All Other.
e. Wet & dry laid and needled batts only.
f. Acrylic and nylon quantities are included in All Other.
g. 1987-1988 data exclude Vinyon.

TABLE 15:
U.S. MANUFACTURED FIBER IMPORTS FOR CONSUMPTION
THOUSAND POUNDS

ITEM	COMMODITY NUMBER AS OF 1/1/87	1988 JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR TO DATE 1988	1987
CELLULOSIC FIBER															
YARN - SINGLES															
TEXTURED	310.0106 & .0206	0	+	0	64	18	16	60	56	93	269			576	305
OTHER	310.0130 & .0230 [a]	1362	1468	1021	995	1210	1412	1174	1318	1496	945			12401	9133
MONOFILAMENTS	309.0310 & .0610	0	+	0	1	1	0	0	3	1	0			6	5
STRIPS, $1/LB & UNDER	309.2000*	11	62	107	72	97	138	0	153	56	90			786	198
SUBTOTAL ABOVE		1373	1530	1128	1132	1326	1566	1234	1530	1646	1304			13769	9641
STAPLE	309.4320 & .4325	1182	889	1107	934	1354	1492	1406	2123	1995	1805			14287	11164
GROUPED FILAMENTS	309.3010 & .3310	54	1	111	14	134	151	226	137	162	232			1222	775
SUBTOTAL ABOVE		1236	890	1218	948	1488	1643	1632	2260	2157	2037			15509	11939
WASTE, ADVANCED&NOT ADVANCED	309.6615 & .7510	0	1	4	0	0	0	0	0	0	0			5	28
NONCELLULOSIC FIBER															
YARN - SINGLES															
TEXTURED - NYLON															
LESS THAN 450 DENIER	310.0107 & .0207	341	297	204	271	150	176	175	235	223	289			2361	1667
450 DENIER AND OVER	310.0108 & .0208	1503	1643	1531	2018	1472	1080	1980	1799	1177	1062			15265	23907
- POLYESTER	310.0110 & .0210	989	1368	1024	881	1327	1749	1054	1116	1363	1387			12258	12613
- OTHER	310.0114 & .0214	2158	1829	2816	1920	1882	1811	2234	2290	2567	2558			22065	19225
OTHER - NYLON	310.0149 & .0249	1154	1567	1386	1249	1672	1267	1226	1732	1463	1335			14051	20122
- POLYESTER	310.0150 & .0250	2153	1631	1733	1657	1707	1719	1992	1964	1920	1476			17952	16311
- OTHER	310.0170 & .0270 [b]	762	1085	876	922	469	453	418	493	658	680			6816	5605
MONOFILAMENTS	309.0200 & .0330 [c]	381	384	307	374	454	483	418	510	355	357			4023	3168
STRIPS, OVER $1/LB	309.2100 & .2500*	177	196	322	273	431	270	285	266	274	273			2767	2199
SUBTOTAL ABOVE		9618	10000	10199	9565	9564	9008	9782	10405	10000	9417			97558	104817
STAPLE - NYLON	309.4331 & .4351	1696	1306	1915	2115	1707	1284	1468	1724	2177	2636			18028	35685
- POLYESTER	309.4336 & .4361	4653	5670	4716	4933	7498	8268	6130	8251	7923	5495			63537	62251
- ACRYLIC	309.4366	1214	953	1179	1399	1647	1377	1257	1513	533	1308			12380	13197
- OLEFIN	309.4371	83	104	534	499	165	174	40	99	0	167			1865	447
- OTHER	309.4341 & .4390	1350	1625	1750	2008	969	1908	1239	1632	1279	1694			15454	11105
GROUPED FILAMENTS															
NYLON	309.3030 & .3200	3713	2877	3289	3285	4091	3619	3596	3785	2430	2612			33297	26605
POLYESTER	309.3040 & .3340	441	215	65	421	304	377	426	701	278	602			3830	2534
ACRYLIC	309.3050 & .3350	1086	1331	1249	1664	1631	1702	992	1855	1348	1939			14797	10692
OTHER	309.3065 & .3365	106	33	159	26	639	31	94	165	77	185			1515	1444
SUBTOTAL ABOVE		14342	14114	14856	16350	18651	18740	15242	19725	16045	16638			164703	163960
WASTE, NOT ADVANCED															
- NYLON	309.6625	2940	1991	1933	1842	2391	2267	1716	1344	1323	1423			19170	22406
- POLYESTER	309.6630	550	486	1073	537	470	1233	716	500	1153	933			7751	8016
- ACRYLIC	309.6645	0	0	21	110	0	2	0	0	0	2			135	270
- OTHER	309.6660	221	273	392	157	271	260	101	241	194	256			2366	4513
NOILS & GARNETTED FIBERS	309.7000*	76	0	0	33	0	0	0	0	0	0			109	62
OTHER WASTE, ADVANCED	309.7525 - .7555	596	596	837	323	366	280	286	435	565	393			4477	4554
SUBTOTAL ABOVE		4383	3346	4056	3102	3498	4042	2819	2520	3235	3007			34008	39821
TOTAL MANUFACTURED ABOVE		30952	29881	31461	31097	34527	34999	30709	36440	33083	32403			325552	330206
OTHER MANUFACTURED FIBER TOPS, YARN & THREAD															
YARN - PLIED															
TEXTURED - CELLULOSIC	310.1506	0	0	+	0	0	0	0	0	0	0			+	5
- NONCELLULOSIC	310.1015 [d] & .1205 [e]	340	167	184	216	276	176	197	156	122	199			2033	3548
OTHER - CELLULOSIC	310.1030 & .1535 [f]	15	21	34	34	19	22	16	42	50	79			332	427
- NONCELLULOSIC	310.1050 & .1070 [g]	277	268	330	289	338	303	279	358	309	343			3094	2713
SPUN YARN - CELLULOSIC	310.4005 & .4030 [h]	62	95	137	20	94	74	112	47	49	70			760	1359
- OTHER	310.4015 & .4027 [i]	2503	1471	1826	1389	2219	2829	1874	2062	2012	1179			19364	32671
OTHER YARNS - NES, INCL. CHENILLE	310.6034 - .8000	2122	1933	1536	1956	1629	1099	2762	997	1451	2776			18261	23401
HANDWORK YARNS & SEWING THREAD	310.9000 & .9310 [j]	607	877	571	585	661	789	600	556	652	496			6394	7492
SLIVER, TOPS & ROVING	309.9000	271	287	351	530	234	181	359	398	63	161			2835	5136
GLASS FIBER	309.2800 & .2900 [k]	2526	2429	2602	2286	2271	2344	2110	2469	1927	2373			23337	24767
GRAND TOTAL ABOVE		39675	37429	39032	38402	42268	42816	39018	43525	39718	40079			401962	431725

SOURCE: U.S. Census Bureau Report IM145X.

NES Not elsewhere specified.

\+ Less than 1 thousand pounds.

* These items are not reported by the Census Bureau as cellulosic vs. noncellulosic. Separation of cellulosic and noncellulosic quantities are estimated, based primarily on average declared value.

a. Also includes 310.0610.

b. Also includes 310.0530, .0550, .0630 & .0650.

c. Also includes 309.0340, .0365, .0500, .0630, .0640 & .0665.

d. There may be some acetate yarn in these data, but the Census figures do not permit a segregation.

e. Also includes 310.1210.

f. Also includes 310.2110.

g. Also includes 310.1510, .1514, .1550, 1555, .1570, .2050, .2130 & .2150.

h. Also includes 310.5005 & .5030.

i. Also includes 310.4046, .4047, .4050, .5015, .5046, .5047, .5049 & .5051.

j. Also includes 310.9320 & .9500.

k. Chiefly roving. Also includes 309.9800 & .9900.

TABLE 16:
U.S. EXPORTS OF MANUFACTURED FIBER
THOUSAND POUNDS

ITEM	COMMODITY NUMBER AS OF 1/1/87	1988 JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR TO DATE 1988	1987
CELLULOSIC FIBER															
FILAMENT YARN [a]															
TEXTURED	310.0004	27	2	6	31	61	5	11	59	10	5			217	519
OTHER [b]	310.0026	683	991	556	1220	1231	1269	582	1212	1765	730			10239	4377
MONOFILAMENTS	309.0110	89	36	5	36	9	45	0	28	9	0			257	168
STRIPS	309.2210	0	23	0	0	10	2	0	1	0	25			61	79
SUBTOTAL ABOVE		**799**	**1052**	**567**	**1287**	**1311**	**1321**	**593**	**1300**	**1784**	**760**			**10774**	**5143**
STAPLE+TOW-RAYON	309.4222	1019	1907	1702	1468	2682	2250	1615	2034	2492	2145			19314	31330
STAPLE-ACETATE	309.4219	89	66	309	329	146	97	209	126	374	318			2063	1313
SUBTOTAL ABOVE		**1108**	**1973**	**2011**	**1797**	**2828**	**2347**	**1824**	**2160**	**2866**	**2463**			**21377**	**32643**
WASTE, ADVANCED & NOT ADVANCED	309.7400	**143**	**251**	**198**	**86**	**263**	**42**	**432**	**235**	**80**	**97**			**1827**	**976**
NONCELLULOSIC FIBER															
YARN - SINGLES															
NYLON - TEXTURED	310.0005 & .0007	3651	4775	4929	3355	4209	4685	5391	3916	5626	5748			46285	28038
- HIGH TENACITY [c]	310.0027	8372	8470	8040	6580	6438	6533	8344	4836	10656	7160			75429	66838
- OTHER	310.0029	786	1111	904	1186	1068	819	1072	978	841	1147			9912	7697
POLYESTER - TEXTURED	310.0010	1739	2796	3405	2979	3311	2690	2371	5279	4051	2877			31498	21293
- HIGH TENACITY [c]	310.0032	1421	1817	2189	2281	2706	2059	2534	2410	3092	2550			23059	21522
- OTHER [d]	310.0034	207	225	265	284	135	68	239	134	55	278			1890	1470
OTHER - TEXTURED	310.0014	1067	1904	2220	1725	2118	1459	1720	1640	1879	2382			18114	14018
- OLEFIN	310.0040	83	626	121	143	161	160	258	322	330	187			2391	637
- OTHER	310.0044	360	729	886	802	688	699	507	468	381	438			5958	5334
MONOFILAMENTS, ALL DENIERS															
NYLON	309.0120	658	728	515	983	523	623	289	649	399	488			5855	5606
POLYESTER	309.0140	1641	1789	2345	1784	1871	1713	1992	1990	1345	1514			17984	9618
OTHER	309.0170	680	901	768	769	847	603	553	705	754	964			7544	6358
STRIPS	309.2220 & .2270	415	192	277	442	454	394	346	377	340	195			3432	3981
SUBTOTAL ABOVE		**21080**	**26063**	**26864**	**23313**	**24529**	**22505**	**25616**	**23704**	**29749**	**25928**			**249351**	**192410**
STAPLE - NYLON	309.4240	2423	1511	1760	981	1387	1491	1575	2125	2280	1867			17400	18471
- POLYESTER	309.4242	13519	7586	10316	10132	11435	11625	13750	11140	12917	16383			118803	147287
- ACRYLIC	309.4245	17224	11389	16118	7723	12187	4510	8350	11085	13735	10212			112533	51487
- OLEFIN	309.4246	1488	1604	2696	2137	1784	1876	1683	561	1102	1341			16272	18354
- OTHER	309.4247	1228	1696	3193	1951	2312	2229	1358	2437	2178	2065			20647	31285
GROUPED FILAMENTS															
NYLON	309.3220	693	497	469	339	601	746	639	761	632	725			6102	4295
POLYESTER [d]	309.3240	2108	1330	2067	794	2046	1953	1230	1764	1740	1953			16985	17243
ACRYLIC	309.3250 & .3255	4967	2172	3809	2267	3498	2338	3049	1753	2746	3452			30051	20827
SUBTOTAL ABOVE		**43650**	**27785**	**40428**	**26324**	**35250**	**26768**	**31634**	**31626**	**37330**	**37998**			**338793**	**309249**
WASTE, ADVANCED & NOT ADVANCED															
- NYLON	309.7620	685	1210	1189	1492	1287	2199	1489	1661	1596	1252			14060	9350
- POLYESTER	309.7630	3959	4435	6616	4231	4813	5219	3829	6994	6607	4901			51604	47035
- ACRYLIC	309.7640	312	1219	923	676	970	795	671	597	620	607			7390	7987
- OTHER	309.7660	3765	3582	3138	3474	3605	3309	3019	3970	4094	6985			38941	29345
SUBTOTAL ABOVE		**8721**	**10446**	**11866**	**9873**	**10675**	**11522**	**9008**	**13222**	**12917**	**13745**			**111995**	**93717**
TOTAL MAUFACTURED ABOVE		**75501**	**67570**	**81934**	**62680**	**74856**	**64505**	**69107**	**72247**	**84726**	**80991**			**734117**	**634138**
GLASS FIBER	309.2700 & .9700	8813	9352	9114	8934	7139	8164	9712	9075	8429	9290			88022	70334
GRAND TOTAL ABOVE		**84314**	**76922**	**91048**	**71614**	**81995**	**72669**	**78819**	**81322**	**93155**	**90281**			**822139**	**704472**

SOURCE: U.S. Census Bureau Report EM522.

+ Less than 1 thousand pounds.

a. Includes singles and plied yarn.

b. Includes rayon tire cord.

c. Includes noncellulosic tire cord.

d. Includes zero twist yarns.

TABLE 17:
SELECTED U.S. MANUFACTURED FIBER IMPORTS FOR CONSUMPTION BY COUNTRY OF ORIGIN
THOUSAND POUNDS

ITEMS & COUNTRY	1988 JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR TO DATE 1988	1987
CELLULOSIC YARN, MONOFIL & STRIPS														
AUSTRIA	0	0	0	0	0	0	0	0	0	0			0	244
BRAZIL	54	0	28	55	28	13	69	29	36	36			348	556
CANADA	426	481	507	292	592	827	427	739	779	767			5837	2512
GERMANY, FED. REP. OF	353	635	281	227	388	313	358	355	315	336			3561	4162
JAPAN	277	131	45	121	62	63	54	17	27	34			831	580
MEXICO	62	53	18	81	70	68	115	86	114	46			713	493
NETHERLANDS	190	229	228	289	142	104	176	218	266	73			1911	882
ALL OTHER COUNTRIES [a]	11	1	21	67	44	178	35	86	109	12			564	212
TOTAL CELLULOSIC YARN	**1373**	**1530**	**1128**	**1132**	**1326**	**1566**	**1234**	**1530**	**1646**	**1304**			**13769**	**9641**
CELLULOSIC STAPLE+TOW														
CANADA	1088	774	974	797	1355	1551	1309	2131	1880	1604			13463	9656
ITALY	34	73	19	0	33	0	39	32	0	64			294	623
JAPAN	99	0	91	46	37	68	101	45	237	347			1071	884
SWEDEN	0	41	45	0	20	0	0	0	0	0			106	329
UNITED KINGDOM	12	0	79	54	0	24	113	50	40	21			393	321
ALL OTHER COUNTRIES [b]	3	2	10	51	43	+	70	2	0	1			182	126
TOTAL CELLULOSIC STAPLE+TOW	**1236**	**890**	**1218**	**948**	**1488**	**1643**	**1632**	**2260**	**2157**	**2037**			**15509**	**11939**
NONCELLULOSIC YARN, MONOFIL & STRIPS														
BELGIUM	1436	1117	1665	894	172	530	803	630	1016	1089			9352	10312
BRAZIL	0	7	0	199	169	109	92	203	80	322			1181	19
CANADA	1448	1872	2178	2156	2451	1677	1568	2139	1766	2038			19293	15086
COSTA RICA	606	570	382	533	514	523	692	442	606	390			5258	5688
DENMARK	0	0	0	0	61	30	60	0	30	30			211	215
FRANCE	767	588	723	338	272	588	642	960	410	326			5614	4706
GERMANY, FED. REP. OF	1074	1355	1543	1078	1495	1270	1130	1342	1408	1115			12810	20001
IRELAND	37	34	74	114	150	78	192	114	138	118			1049	447
ISRAEL	388	309	176	304	182	254	273	281	208	208			2583	2141
ITALY	761	811	407	1678	941	412	1403	829	1051	747			9040	11147
JAPAN	648	212	444	277	282	338	304	337	328	311			3481	6080
KOREA, REP. OF	3	23	33	63	0	40	1	0	0	0			163	357
MEXICO	1428	2004	1582	978	1622	1660	1545	1659	1758	1657			15893	17142
NETHERLANDS	49	42	26	31	57	4	16	10	116	25			376	1039
ROMANIA	12	58	41	160	122	519	0	0	0	0			912	166
SINGAPORE	81	41	44	19	34	35	23	23	23	44			367	397
TAIWAN	12	36	12	53	69	34	70	103	164	103			656	579
UNITED KINGDOM	676	753	684	632	917	751	819	1050	731	680			7693	7188
ALL OTHER COUNTRIES [c]	192	168	185	58	54	156	149	283	167	214			1626	2107
TOTAL NONCELLULOSIC YARN	**9618**	**10000**	**10199**	**9565**	**9564**	**9008**	**9782**	**10405**	**10000**	**9417**			**97558**	**104817**
NONCELLULOSIC STAPLE+TOW														
AUSTRIA	601	727	752	1321	296	481	506	867	270	471			6292	1890
AUSTRALIA	38	0	36	19	0	164	46	18	19	70			410	226
BELGIUM	35	0	18	18	634	0	18	193	10	0			926	179
BRAZIL	0	0	0	0	0	0	0	0	0	0			0	1673
CANADA	2003	2183	2981	2720	2797	2353	2353	2020	2692	2590			24692	26040
FRANCE	934	799	800	957	1257	934	826	1220	675	926			9328	6526
GERMANY, FED. REP. OF	2738	3040	2503	2478	3319	2475	2793	3377	2357	2381			27461	28098
INDIA	0	0	0	5	2575	2050	1556	2239	1068	1070			10563	1
IRELAND	80	123	162	325	406	240	362	201	312	376			2587	1463
ITALY	130	362	145	241	5	37	44	190	85	65			1304	12137
JAPAN	1963	2057	1894	2166	1912	3095	1771	3016	2187	2926			22987	19674
KOREA, REP. OF	1355	1516	1456	1580	1295	1604	2058	1908	2699	1931			17402	9586
MALAYSIA	0	95	48	48	0	95	48	48	0	48			430	516
MEXICO	303	549	210	502	985	1043	822	800	605	701			6520	18631
ROMANIA	448	0	86	664	230	893	0	0	53	0			2374	3901
SWITZERLAND	102	21	153	189	123	122	160	127	148	72			1217	878
TAIWAN	1986	1109	1425	1112	1024	1384	549	1172	1321	493			11575	19080
UNITED KINGDOM	1604	1503	2175	1920	1777	1745	1184	2046	1495	2501			17950	11963
ALL OTHER COUNTRIES [d]	22	30	12	85	16	25	146	283	49	17			685	1296
TOTAL NONCELLULOSIC STAPLE+TOW	**14342**	**14114**	**14856**	**16350**	**18651**	**18740**	**15242**	**19725**	**16045**	**16638**			**164703**	**163960**

\+ Less than 1 thousand pounds.

a. United Kingdom 175, Morocco 123, Singapore 108, France 65, Korea, Rep. of 51, Taiwan 20, Norway 12, Italy 7, Australia 3.

b. Austria 111, France 63, Germany, Fed. Rep. of 2, Luxembourg 2, Mexico 2, Belgium 2.

c. Spain 342, Chile 288, Australia 164, Argentina 152, Sweden132, Norway 117, Gibraltor 106, Turkey 87, Luxembourg 82, Switzerland 69, Austria 45, Ecuador 23, Hong Kong 13, Thailand 4, China, PRC 1, Sri Lanka 1.

d. Gibraltar 259, Netherlands 115, Israel 101, New Caledonia 70, Hong Kong 60, Finland 57, Spain 8, China, PRC 6, Egypt 5, Greece 2, Portugal 2, Philippines.

TABLE 18:
SELECTED U.S. MONTHLY FIBER DATA

MILLION POUNDS

ITEM	1988 JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR TO DATE[a] 1988	1987
MANUFACTURED FIBER TOTAL SHIPMENTS[b,c]														
CELLULOSIC														
YARN	15.9	16.1	18.1	19.4	18.3	17.5	19.1	18.6	18.1	18.6	17.0		196.7	172.8
RAYON STAPLE	32.6	35.9	38.5	35.5	36.4	36.2	29.1	36.1	34.3	34.8	29.1		378.5	378.9
TOTAL CELLULOSIC	48.5	52.0	56.6	54.9	54.7	53.7	48.2	54.7	52.4	53.4	46.1		575.2	551.7
NONCELLULOSIC														
YARN+MONOFILAMENTS														
NYLON - INDUSTRIAL[d]	27.5	32.1	34.8	32.2	30.8	32.4	32.4	28.8	29.2	29.9	33.7		343.8	343.0
- CARPET	72.6	80.7	84.6	80.7	81.9	79.3	73.7	89.4	87.1	87.8	82.2		900.0	869.6
- TEXTILE[f]	30.0	31.2	33.9	31.7	32.0	32.5	27.7	32.3	32.0	32.9	34.0		350.2	347.7
POLYESTER - INDUSTRIAL[d]	26.5	29.3	30.7	31.3	29.4	32.3	29.3	29.0	29.5	31.4	28.7		327.4	310.0
- TEXTILE[f]	62.9	68.4	67.7	74.3	71.9	70.5	70.2	66.7	69.1	77.7	79.0		778.4	774.1
OLEFIN[e]	97.2	101.4	102.4	102.7	102.9	102.8	89.0	99.6	105.1	99.6	95.6		1098.3	1034.1
TOTAL YARN	316.7	343.1	354.1	352.9	348.9	349.8	322.3	345.8	352.0	359.3	353.2		3798.1	3678.5
STAPLE+TOW+FIBERFILL														
NYLON	78.4	81.7	83.6	71.0	77.9	79.3	75.0	90.2	81.3	89.6	77.9		885.9	919.4
ACRYLIC+MODACRYLIC	48.5	52.8	55.4	45.4	45.6	47.4	42.1	53.2	51.8	48.8	50.1		541.1	542.4
POLYESTER	190.4	200.4	195.3	212.1	195.8	195.7	190.9	195.7	203.1	228.3	209.0		2216.7	2160.0
OLEFIN	29.1	29.6	30.7	29.8	31.2	32.4	26.9	32.1	30.2	29.2	39.3		340.5	333.0
TOTAL STAPLE	346.4	364.5	365.0	358.3	350.5	354.8	334.9	371.2	366.4	395.9	376.3		3984.2	3954.8
TOTAL NONCELLULOSIC	663.1	707.6	719.1	711.2	699.4	704.6	657.2	717.0	718.4	755.2	729.5		7782.3	7633.3
TOTAL FIBER	711.6	759.6	775.7	766.1	754.1	758.3	705.4	771.7	770.8	808.6	775.6		8357.5	8185.0
MANUFACTURED FIBER END OF MONTH STOCK														
CELLULOSIC														
YARN	12.3	13.3	13.2	14.0	12.8	12.4	13.4	11.6	11.5	12.3	11.2		11.2	11.6
RAYON STAPLE	23.5	22.5	20.3	18.0	16.5	13.4	15.5	13.7	13.3	12.6	12.5		12.5	18.2
TOTAL CELLULOSIC	35.8	35.8	33.5	32.0	29.3	25.8	28.9	25.3	24.8	24.9	23.7		23.7	29.8
NONCELLULOSIC														
YARN+MONOFILAMENTS														
NYLON - INDUSTRIAL[d]	26.6	25.7	23.5	23.3	25.2	24.7	28.1	30.4	30.5	28.6	23.6		23.6	21.8
- CARPET	72.0	66.5	67.0	67.1	70.2	71.9	78.0	61.9	58.1	53.3	56.0		56.0	60.4
- TEXTILE[f]	54.6	53.1	50.0	49.7	51.2	50.4	55.3	55.2	54.6	52.9	50.1		50.1	48.3
POLYESTER - INDUSTRIAL[d]	29.8	29.2	28.8	29.6	30.5	29.2	33.3	32.4	31.4	30.7	30.1		30.1	24.5
- TEXTILE[f]	82.5	81.5	79.5	77.3	79.7	82.9	94.4	94.4	90.4	90.1	84.1		84.1	82.5
OLEFIN[e]	54.4	55.0	53.5	54.1	54.5	54.0	55.3	53.7	52.0	52.0	53.1		53.1	56.7
TOTAL YARN	319.9	311.0	302.3	301.1	311.3	313.1	344.4	328.0	317.0	307.6	297.0		297.0	294.2
STAPLE+TOW+FIBERFILL														
NYLON	63.4	64.7	57.5	64.4	60.5	65.2	66.5	60.6	45.3	39.9	46.7		46.7	68.9
ACRYLIC+MODACRYLIC	62.4	58.8	55.4	57.9	63.7	67.9	72.8	67.3	62.3	63.1	61.1		61.1	66.6
POLYESTER	173.7	168.3	157.8	161.8	167.4	173.7	205.7	194.9	188.6	177.5	159.9		159.9	163.7
OLEFIN	32.5	33.7	35.0	35.8	37.8	36.1	38.5	38.4	32.8	34.1	30.8		30.8	32.5
TOTAL STAPLE	332.0	325.5	305.7	319.9	329.4	342.9	383.5	361.2	329.0	314.6	298.5		298.5	331.7
TOTAL NONCELLULOSIC	651.9	636.5	608.0	621.0	640.7	656.0	727.9	689.2	646.0	622.2	595.5		595.5	625.9
TOTAL FIBER	687.7	672.3	641.5	653.0	670.0	681.8	756.8	714.5	670.8	647.1	619.2		619.2	655.7
WOOL & COTTON CONSUMPTION														
APPAREL CLASS WOOL	12.9	11.7	14.1	11.3	11.5	13.5	11.6	9.5	10.5				106.6	117.9
CARPET CLASS WOOL	1.4	1.5	1.6	1.4	1.4	1.1	1.1	1.4	1.5				12.4	10.0
TOTAL RAW WOOL	14.3	13.2	15.7	12.7	12.9	14.6	12.7	10.9	12.0				119.0	127.9
RAW COTTON	300.0	311.4	339.3	278.0	302.6	297.4	226.4	239.7	310.2	272.6			2877.6	3140.7

a. "Year to date" totals for stock, are the latest month's figures.
b. The monthly production of each fiber may be calculated as total shipments plus a stock increase, or less a stock decrease, over the month.
c. Producers' total domestic shipments plus export shipments.
d. Industrial is defined as 500 denier and coarser with an Instron tenacity of 7 grams or more per denier.
e. Olefin yarn+monofilaments also includes spunbonded polypropylene and film fiber produced for textile end uses.
f. Includes low denier industrial yarn.

ANNUAL INDEX - VOLUME FIFTY-NINE

The names of U.S. fiber manufacturers, together with the products made, are listed on pages 239-247. The corresponding list of world producers is on pages 114-144. Monthly U.S. fiber shipments and stock data, appearing in the table-"Selected U.S. Monthly Fiber Data," are usually found on the last page of each ***Textile Organon*** issue. In the following index this appears under the heading "Monthly Data".

Each issue of the ***Textile Organon*** contains one or more principal topics. The following is a brief outline of the major subjects covered in the 1988 issues. The numbers in parentheses are the pages of each month's issue.

JANUARY	Special Feature: "Capacity Utilization Review" (1-20)
FEBRUARY	Special Feature: "1987 Import/Export Review" (21-36)
MARCH	Special Feature: "1987: A Year in Perspective" (37-68)
APRIL	Special Feature : " Import Review " (69-80)
MAY	Special Feature: "1987 Per Capita Consumption Review" (81-96)
JUNE	**Worldwide Man-Made Fiber Survey:** Directory of Worldwide Man-Made Fiber Producers (97-152)
JULY	Special Feature: "Worldwide Man-Made Fiber Data in Pounds" (153-176)
AUGUST	Special Feature: "Raw Fiber Equivalent of Imports, Exports & Balance" (177-196)
SEPTEMBER	**Annual U.S. End Use Survey** (197-216)
OCTOBER	Special Feature: "U.S. Man-Made Textile Trade Balance: An Overview" (217-236)
NOVEMBER	**1988 Directory of American Fiber Manufacturers** (237-256)
DECEMBER	Special Features: "Worldwide Natural Fiber Survey" ; "November 1988 Capacity Survey Analysis" (257-280)

-A-

ACETATE
- Capacity
  - Producing - 8, 89, 109, 167, 266
  - Utilization - 9
- Definition - 114, 239
- Distribution - 50
- Exports - 17, 26, 33, 57, 79, 93, 147, 175, 187, 215, 228, 230, 251, 273
- Mill Consumption - 46, 86
- Plants - 113
- Producers - 138-139, 241
- Production
  - U.S. - 6, 48, 89, 280
  - World - 108-109, 166-167
- Shipments & Stock - See MONTHLY DATA

ACRYLIC+MODACRYLIC
- Capacity
  - Producing - 8, 90, 111, 169, 267
  - Utilization - 9, 111, 169
- Definition - 114, 239
- Distribution - 51
- Exports - 17, 26, 33, 35, 57, 79, 93, 95, 147, 175, 187, 189, 215, 228, 230, 251, 253, 273
- Imports - 16, 27, 28, 32, 35, 56, 78, 92, 95, 146, 174, 186, 189, 202, 214, 229, 231, 250, 253, 272
- Mill Consumption - 46, 86
- Plants - 113, 248
- Producers - 138-139, 240-242
- Production - See also Quarterly Data
  - U.S. - 6, 49, 110-111, 168-169
  - World - 110-111, 168-169
- Quarterly Data - 35, 61, 95, 149, 189, 235, 253, 271
- Shipments & Stock - See MONTHLY DATA & QUARTERLY DATA
  - Total U.S. Shipments - 11
- Waste - 202

APPAREL - See also DOMESTIC SHIPMENTS & MONTHLY DATA
- End Uses -200, 204-205
- Imports, Exports & Balance - 30, 41-43, 54, 87, 220, 223, 224
- Per Capita Consumption of Imports - 87
- Production - 265
- Raw Fiber Equivalent - 41-43, 54, 87
  - Revised - 180-183
- U.S. General Imports - 72-73
- Wool - 43, 54, 180, 183, 264
- Yarn Capacity - 8, 90, 265, 267

ARAMID FIBERS - 114, 239
- Producer - 138, 241

AVAILABLE SUPPLY - 12-13, 35, 95, 189, 201, 253

AZLON FIBERS - 114

- B -

BROAD WOVEN FABRICS
- Domestic Shipments - 62-63, 148-149, 234-235, 270-271
- Imports & Exports - 30, 224

- C -

CAPACITY
- "Capacity Utilization Review" - 4-10
- "May 1988 Capacity Survey Analysis" - 88-90
- "November 1988 Capacity Survey Analysis" - 265-269
- Producing Capacity
  - U.S. - 4-5, 7, 8, 89-90, 103, 107, 111, 165, 169, 266, 268
  - World - 101-112, 158-172, 268-269
- Utilization - 4-5, 9, 111, 169

CAPTIVE FIBER PRODUCERS - 114, 239

CARPETS & RUGS (FLOOR COVERINGS) - See also DOMESTIC SHIPMENTS and MONTHLY DATA
End Use - 200, 207
Nylon Carpet Yarn Capacity - 8, 10, 90, 267
Nylon Carpet Yarn Production - 6, 10
Wool - 200, 207, 264

CELLULOSIC FIBERS (RAYON, ACETATE) - See also MONTHLY DATA
Capacity
Producing - 4, 7, 8, 89, 107, 165, 266
Utilization - 4, 9
Distribution - 50
End Uses - 200-209
Exports - 12-13, 17, 24-25, 26, 29-30, 33, 34-35, 50, 57, 79, 93, 94-95, 147, 175, 187, 188-189, 215, 224, 228, 230, 232-233, 251, 252- 253, 273
Dollar Value - 24-25, 26, 230
Imports - 12-13, 16, 18, 27, 28, 29-30, 31, 32, 34-35, 50, 56, 58, 77, 78, 91, 92, 94-95, 145, 146, 173, 174, 185, 186, 188-189, 202, 213, 214, 224, 227, 229, 231, 249, 250, 252-253, 272, 274
Dollar Value - 27, 231
Mill Consumption - 50, 52, 74, 86, 201, 226
Net Available - 12-13, 34, 95, 189, 201, 253
Plants - 113, 248
Producers - 138-139, 239-242
Production - See also Quarterly Data
U.S. - 4, 6, 7, 12, 48, 89, 106-107, 164-165, 266
World - 12-13, 104-109, 162-167
Quarterly Data- 34-35, 60-61, 94-95, 148-149, 188-189, 234-235, 252-253, 270-271
Shipments & Stock - See MONTHLY DATA & QUARTERLY DATA
Total U.S. Shipments - 11
Waste - 52, 202

CHAFER - See DOMESTIC SHIPMENTS

CIGARETTE TOW
Production - 112, 172

CIRCULAR KNIT FABRICS - See DOMESTIC SHIPMENTS

CONSUMPTION - See also IMPORTS FOR CONSUMPTION
"1987 Per Capita Consumption Review" - 83-87
Apparel - 87
Domestic Consumption of Products - 53, 75
End Use -197, 200-212
Mill - 14-15, 46-47, 50-51, 52-53, 74-75, 86, 201, 226
Per Capita - 83-87
Raw Cotton - 55, 259, 262
Wool - 264

COTTON - See also MONTHLY DATA
Acreage & Yield - 263
Available Supply - 201, 262
Consumption - 55, 200-201, 259, 261, 262
Domestic - 53, 59, 75
Mill - 14-15, 46-47, 53, 75, 86, 201, 226
Per Capita - 83, 85, 86-87
Distribution - 262
End Uses - 202-212
Imports & Exports - 201, 259, 262
Imports & Exports of Manufactures - 30, 42, 53, 54, 75, 87, 180, 182, 201, 224, 262
Manufactures Trade Balance, 1987 Monthly - 44
Production - 259, 260, 262, 263
Raw Fiber Equivalents of Manufacturers - 42, 54, 87, 180, 182, 224
Stock - 259, 262
Worldwide Demand - 97, 156

- D -

DOMESTIC CONSUMPTION OF PRODUCTS - 53, 75

DOMESTIC SHIPMENT See also QUARTERLY DATA
Filament Yarn - 60, 148, 234, 270
Staple+Tow - 61, 149, 235, 271

- E -

EMPLOYMENT, INDUSTRY - 45

END USES - See also DOMSTIC SHIPMENTS
"Textile Fiber End Use Survey" - 197, 200-212
Apparel - 197, 200, 204-205
Exports - 197, 200, 203
Floor Coverings - 197, 200, 207
Home Furnishings - 197, 200, 206-207
Industrial & Other - 197, 200, 208-209
Summary -197, 200
Summary Changes - 197
Vs. Available Supply - 201

EUROPE - See also WORLDWIDE, BY AREA OR SELECTED COUNTRIES
Exports to - 12, 232
Imports from - 12
/Exports & Net Available - 12
Glass Fiber Production & Producing Capacity - 112
Mill Consumption - 14, 226
Plants, Number of - 113
Producing Capacity - 101, 105, 109, 111,159, 163, 167, 169, 268
Production - 100-101, 104-105, 108-109,110-111, 112, 158-159, 162-163, 166-167, 168-169, 268

EXPORTS
"1987 Import/Export Review" - 24-28
"U.S. Man-Made Fiber Textile Trade Balance" - 220-225
By Country of Destination - 24-25, 232-233
Cotton - 180, 182, 259, 262
Distribution - 50-51
Dollar Value - 24-25, 26, 230
End Use - 197, 200, 203
/Imports & Balance - 12-13, 29-30, 221-225
/Imports & Balance of Manufactures- 30, 40-44, 54, 180-183, 221-225
Manufactures - 75
Quarterly Data - 34-35, 94-95, 188-189, 252-253
Raw Fiber Equivalents - 40-44, 54, 180-183
Semimanufactured Products - 203
U.S. Exports of Man-Made Fiber - 12-13, 17, 24-25, 26, 33, 34-35, 57, 79, 93, 94-95, 147, 175, 187, 188-189, 215, 228, 230, 251, 252- 253, 273
Wool - 264

- F -

FACE YARNS - See CARPETS & RUGS

FIBERFILL - See also DOMESTIC SHIPMENTS
End Use - 208, 212

FILM FIBER - See OLEFIN FIBER
Definition - 114, 239

FLAT GOODS - See DOMESTIC SHIPMENTS

FLUOROCARBON (FEP & TFE) - 114, 239
Producer - 138, 240

- G -

GENERIC NAMES - 114, 239

GLASS FIBER
Capacity
Producing - 8, 89, 112, 172, 266
Definition, Forms of - 114
Distribution - 50
Exports - 17, 26, 33, 50, 57, 79, 93, 147, 175, 187, 215, 228, 230, 251, 273
Imports - 16, 27, 28, 32, 34, 50, 56, 78, 92, 94, 146, 174, 186, 188, 202, 229, 231, 250, 252, 272
Mill Consumption - 50
Plants - 113, 248
Producers - 141, 246-247
Production
U.S. - 48, 89, 112, 172, 266
World - 112, 172
Quarterly Data - 34, 94, 188, 252

- H -

HOME FURNISHINGS - See also DOMESTIC SHIPMENTS

End Uses - 197, 200, 206-207
Imports & Exports - 30, 54, 87, 224
Raw Fiber Equivalent - 41-43, 54, 87

HOSIERY - See also DOMESTIC SHIPMENTS
End Uses - 204, 210
U.S. Production - 184

- I -

IMPORTS
"1987 Import/Export Review" - 24-28
"U.S. Man-Made Fiber Textile Trade Balance" - 220-225
Apparel
General (Sq. Yds.) - 72-73
/Exports & Balance (Lbs.) - 30, 41- 43, 54, 87, 220, 223, 224
Consumption
Domestic - 53, 75
Mill - 50-51, 52, 74, 201
Other Fibers - 76
Per Capita - 85, 86, 87
Cotton - 53, 75, 87, 262
Distribution - 50-51
Dollar Value - 27, 231
/Exports & Balance - 12-13, 29-30, 221-225
/Exports & Balance of Manufactures 30, 40-44, 54, 180-183, 221-225
Quarterly Data - 34-35, 94-95, 188-189, 252-253
Raw Fiber Equivalent - 40-44, 54, 87, 180-183
Semimanufactured - 41-43, 54, 75, 87, 180-183, 202
U.S. Selected for Consumption
By Country - 18, 28, 31, 55, 77, 91, 145, 173, 185, 213, 249, 274
By Fiber - 16, 27, 32, 34-35, 56, 78, 92, 94-95, 146, 174, 186, 188-189, 214, 229, 231, 250, 252-253, 272
Wool - 264

INDUSTRIAL - See also DOMESTIC SHIPMENTS and MONTHLY DATA
Definition - 239
End Uses - 197, 200, 208-209
Exports - 24, 25, 54
Imports - 54, 87
Raw Fiber Equivalent - 41-43
Yarn Capacities - 8, 90, 267

- J -

JUTE
Imports - 76

- K -

KNIT FABRIC See also DOMESTIC SHIPMENTS
Imports - 202
Imports, Exports & Balance - 30, 224

- L -

LINEN
Imports - 76

- M -

MILL CONSUMPTION
Of Fiber - 46-47, 50-51, 52-53, 74- 75, 86, 201, 262, 264
Distribution - 50-51, 262
Domestic - 52
In Selected Countries - 14-15, 226

MODACRYLIC FIBER - See ACRYLIC

MONTHLY DATA
Selected Imports for Consumption
By Country - 18, 28, 31, 58, 77, 91, 145, 173, 185, 213, 227, 249, 274
By Fiber - 16, 27, 32, 56, 78, 92, 146, 174, 186, 214, 229, 250, 272
Selected U.S. Fiber Data - 19, 36, 59, 62, 80, 96, 150, 176, 190, 216, 236, 254, 275
Total Man-Made Fiber Shipments - 1, 21, 37, 69, 81, 153, 177, 217, 237, 257
U.S. Exports of Man-Made Fibers - 17, 26, 33, 57, 79, 93, 147, 175, 187, 215, 228, 251, 273

- N -

"1987: A YEAR IN PERSPECTIVE" - 46-55

"1987: IMPORT/EXPORT REVIEW" - 24-28

NARROW FABRICS
Definitions - 210 -211
End Use - 206, 209
Import Summary - 202
Imports, Exports & Balance - 30, 224

NARROW WOVEN
Domestic Shipments - 60, 148, 234, 270

NONCELLULOSIC FIBERS (Acrylic+Modacrylic, Aramid, Nylon, Olefin, Polyester)
See also MONTHLY DATA & QUARTERLY DATA
Capacity
Producing - 4, 5, 7, 8, 89-90, 103, 111,161, 169, 266
Utilization - 4, 9, 111, 169
Distribution - 51
End Uses - 200-212
Exports -12-13, 17, 24-25, 26, 29-30, 33, 34-35, 57, 79, 93, 94-95, 147, 175, 187, 188-189, 215, 228, 230, 232-233, 251, 252-253, 273
Dollar Value - 24-25, 26, 230
Imports - 12-13, 16, 18, 27, 28, 29-30, 31, 32, 34-35, 56, 58, 77, 78, 91, 92, 94-95, 145,146, 173, 174, 185, 186, 188-189, 202, 213, 214, 224, 227, 229, 231, 249, 250, 252-253, 272, 274
Dollar Value - 27
Mill Consumption - 51, 52, 74, 86, 201, 226
Net Available - 12-13, 35, 95, 189, 201, 253
Plants - 113, 248
Producers - 138-139, 239-246
Production - See also Quarterly Data
U.S. - 4, 6, 7, 12, 48, 49, 89, 102-103, 110-111, 160-161, 168-169, 266
World - 12-13, 100-103, 110-111, 158-161, 168-169, 170-171
Quarterly Data - 34-35, 60-61, 94-95, 148-149, 188-189, 234-235, 252-253, 270-271
Shipments & Stock - See MONTHLY DATA & QUARTERLY DATA
Total U.S. Shipments - 11
Waste - 29, 52, 55, 202
Worldwide Demand - 97, 156

NONWOVENS - See also DOMESTIC SHIPMENTS
End Use - 208

NYLON FIBERS
Capacity
Producing - 8, 90, 111, 169, 267
Utilization - 9,111,169
Definition - 114, 239
Distribution - 51
Exports - 17, 26, 33, 34-35, 57, 79, 93, 94-95, 147, 175, 187, 188-189, 215, 228, 230, 251, 252-253, 273
Imports - 16, 27, 28, 32, 35, 56, 78, 92, 95, 146, 174, 186, 189, 202, 214, 229, 231, 250, 253, 272
Mill Consumption - 46, 86
Plants - 113, 248
Producers - 138-139, 157
Production - See also Quarterly Data
U.S. - 6, 49, 110-111, 168-169
World - 110-111, 168-169
Quarterly Data - 34-35, 60-61, 94-95, 148-149, 188-189, 234-235, 252-253, 270-271
Shipments & Stock - See MONTHLY DATA & QUARTERLY DATA
Total U.S. Shipments - 11
Waste - 202

- O -

OLEFIN FIBERS (POLYETHYLENE, POLYPROPYLENE)
Capacity
Producing - 8, 90, 267
Utilization - 9
Definition - 114, 239
Distribution - 51
Exports - 17, 26, 33, 34-35, 57, 79, 93, 94-95, 147, 175, 187, 188-189, 215, 228, 230, 251, 252-253, 273
Imports - 16, 27, 32, 56, 78, 92, 146, 174,

186, 202, 214, 229, 231, 250, 272
Mill Consumption - 46, 86
Plants - 248
Producers - 139-141, 242-246
Production - See also Quarterly Data
U.S. - 6, 49, 112, 172
World - 112, 172
Quarterly Data - 34-35, 60-61, 94-95, 148-149, 188-189, 234-235, 252-253, 270-271
Shipments & Stock - See MONTHLY DATA & QUARTERLY DATA
Total U.S. Shipments - 11

- P -

PBI- 239
Producer - 139, 241

"1987 PER CAPITA CONSUMPTION REVIEW" - 83-87

PLANTS
Directory - 138-141, 157, 239-247
Number of - 113, 248

POLYCARBONATE FIBERS - 114, 239
Producer - 139, 242

POLYESTER
Capacity
Producing - 8, 90, 111, 169, 267
Utilization - 9, 111, 169
Definition - 114, 239
Distribution - 51
Fiberfill - 61, 149, 208, 212, 234
Exports - 17, 26, 33, 34-35, 57, 79, 93, 94-95, 147, 175, 187, 188-189, 215, 228, 230, 251, 252-253, 273
Imports - 16, 27, 28, 32, 35, 56, 78, 92, 95, 146, 174, 186, 189, 202, 214, 229, 231, 250, 253, 272
Mill Consumption - 46, 86
Plants - 113, 248
Producers - 138-139, 240-242
Production- See also Quarterly Data
U.S. - 6, 49, 110-111, 168-169
World - 110-111, 168-169
Quarterly Data - 34-35, 60-61, 94-95, 148-149, 188-189, 234-235, 252-253, 270-271
Shipments & Stock - See MONTHLY DATA & QUARTERLY DATA
Total U.S. Shipments - 11
Waste - 202, 212

POLYETHYLENE & POLYPROPYLENE - See OLEFIN FIBERS

PRODUCER DIRECTORIES
U.S. - 138-141, 157, 239-247
World - 114-142, 157

PRODUCTION - See specific fiber types or groups and QUARTERLY DATA

- Q -

QUARTERLY DATA
Domestic Shipments by End Use
1987 Data - 60-61
1988 Data - 148-149, 234-235, 270-271
Production, Domestic Shipments, Exports, Imports, & Stock -
1987 Data - 34-35
1988 Data - 94-95, 188-189, 252-253
U.S. Imports, Exports & Balance - 29-30

-R -

RAYON
Capacity
Producing - 8, 89, 266
Utilization - 9
Definition - 114, 239
Distribution - 50
Exports - 17, 26, 33, 35, 57, 79, 93, 95, 147, 150, 175, 187, 215, 189, 228, 230, 251, 253, 273
Imports - 35, 95, 189, 253
Mill Consumption - 46, 86
Plants - 113
Producers - 138-139, 240-242
Production - See also Quarterly Data
U.S. - 6, 48, 89, 266
World - 108-109, 166-167
Quarterly Data - 35, 61, 95, 149, 189, 235, 253, 271
Shipments & Stock - See MONTHLY DATA & QUARTERLY DATA
Total U.S. Shipments - 11
Waste - 55

ROPE, CORDAGE & FISHLINE - See also DOMESTIC SHIPMENTS
Definition - 239
End Use - 209

RUGS - See CARPETS & RUGS

- S -

SARAN - 49, 114, 239
Producer - 138, 240

SILK
Deliveries, Raw - 55
Imports -76
Mill Consumption - 53
Worldwide Demand - 97, 156

SISAL
Imports - 76

SHIPMENTS & STOCK
Quarterly Data - 34-35, 94-95, 188-189, 252-253
Domestic Shipments - 60-61, 148-149, 234-235, 270-271
Selected U.S. Monthly Fiber Data - 19, 36, 59, 62, 80, 96, 150, 176, 190, 216, 236, 254, 275
Total Man-Made Fiber Shipments - 1, 11, 21, 37, 69, 81, 153, 177, 217, 237, 257, 272

SPANDEX - 49, 114, 239
Producers - 138, 241

SPUN YARN
Imports for Consumption - 16, 27, 28, 32, 56, 78, 92, 146, 176, 186, 202, 214, 229, 231, 250
Imports & Exports of Manufactures - 30, 224
Net Imports by Country - 12-13

STAPLE+TOW (+FIBERFILL)
Capacity
Producing - 8, 89-90, 103, 107, 111, 161, 165, 169, 266-267
Utilization - 9, 111, 169
Distribution - 50-51
Domestic Shipments - 61, 149, 235, 271
End Uses - 61, 149, 200-212, 235, 271
Exports - 12-13, 17, 24-25, 26, 29-30, 33, 35, 50-51, 57, 79, 93, 95, 147, 175, 187, 189, 215, 228, 230, 232-233, 251, 253, 273
Dollar Value - 24-25, 26, 230
Imports - 12-13, 16, 18, 27, 28, 29-30, 31, 32, 35, 50-51, 52, 56, 58, 74, 77, 78, 91, 92, 95, 145, 146, 173, 174, 185, 186, 189, 202, 213, 214, 227, 229, 231, 249, 250, 253, 272, 274
Dollar Value - 27, 231
Mill Consumption -50-51, 52, 74, 201, 226
Net Available - 12-13, 35, 95, 189, 201, 253
Producers - 138-141, 157, 240-247
Production - See also Quarterly Data
U.S. - 6, 12, 48-49, 89, 102-103, 106-107, 110-111, 160-161, 164-165, 266
World - 12-13, 110-111, 158-165, 168-169
Quarterly Data - 29-30, 35, 61, 95, 149, 189, 235, 253, 271
Shipments & Stock - See MONTHLY DATA & QUARTERLY DATA
Total U.S. Shipments - 11
Worldwide Demand - 97, 156

- T -

TEXTURED YARN - See also DOMESTIC SHIPMENTS
Exports - 17, 26, 33, 57, 79, 93, 147, 175, 187, 215, 228, 230, 251, 273
Imports - 16, 27, 32, 56, 78, 92, 146, 174, 186, 202, 214, 229, 231, 250, 272

THREAD, YARN & SEWING
End Use - 203, 209
Imports - 16, 27, 30, 32, 54, 56, 78, 87, 92, 146, 174, 186, 202, 214, 229, 231, 250, 272
Imports, Exports & Balance - 30, 224

TIRE CORD & FABRIC
Domestic Shipments -60, 148, 234, 270
End Use - 208
Imports, Exports & Balance - 30, 224
Steel - 212

- V -

VINYON - 114, 239 See OLEFIN FIBERS
Producer - 157, 241

- W -

WASTE
End Use - 199, 212
Exports - 17, 26, 29-30, 33, 52, 57, 79, 93, 147, 175, 187, 215, 228, 230, 251, 273
Imports - 16, 27, 28, 29-30, 32, 52, 56, 74, 78, 92, 146, 174, 186, 202, 214, 229, 231, 250, 272
Mill Consumption - 52, 74
Shipments - 52, 55

WOOL - See also MONTHLY DATA
Available Supply - 201
Consumption
Domestic - 53, 59, 75
Mill - 14-15, 46-47, 53, 75, 86, 201, 226, 264
Per Capita - 83, 85, 86-87
See also MONTHLY DATA
Demand
U.S. - 264
Worldwide - 97, 156
End Use - 200-212
Imports - 264
Imports & Exports of Manufactures - 30, 53, 75, 87, 180, 201, 224
Manufactures Trade Balance, 1987 Monthly - 44
Production - 263
Raw Fiber Equivalents of Manufactures - 43, 54, 87, 180, 183
Supply & Demand of Wool in the U.S. - 264

WORLD AFFILIATIONS & OWNERSHIP - 143-144

WORLDWIDE, BY AREA OR SELECTED COUNTRIES
Employment, Industry - 45
Fiber Production & Producing Capacity - 100-112, 158-172, 268-269
Mill Consumption of Man-Made Fiber, Cotton & Wool in Selected Countries - 14-15, 226
1986 Man-Made Fiber Production, Import, Export & Net Available Supply by Country - 12-13
1988 Worldwide Directory of Man-Made Fiber Producers - 114-144, 157
Number of Man-Made Fiber Producing Plants 113
Raw Cotton Consumption by Consuming Country - 261
Raw Cotton Production by Producing Country - 260
Raw Wool Production by Producing Country - 263
Selected U.S. Exports by Country of Destination - 24-25, 232-233
Selected U.S. Man-Made Fiber Imports for Consumption by Country of Origin- 18, 28, 31, 58, 77, 91, 145, 173, 185, 214, 227, 249, 274
U.S. 1986 Fiber Imports and Exports by Country - 12-13
U.S. General Imports of Man-Made Fiber Apparel by Country of Origin - 72-73

-Y -

YARN + MONOFILAMENTS
Capacity
Producing - 8, 89-90, 103, 107, 111, 161, 165, 169, 266-267
Utilization - 9, 111, 169
Definition - 114, 239
Distribution - 50-51
Domestic Shipments - 60, 148, 234, 270
End Uses - 60, 148, 200-212, 234, 270
Exports - 12-13, 17, 24-25, 26, 29-30, 33, 34, 50-51, 57, 79, 93, 94, 147, 175, 187, 188, 215, 228, 230, 232-233, 251, 252, 273
Dollar Value - 24-25, 26, 230
Imports - 12-13, 16, 18, 27, 28, 29-30, 31, 32, 34, 50-51, 52, 56, 58, 74, 77, 78, 91, 92, 94, 145, 146, 173, 174, 185, 186, 188, 202, 213, 214, 227, 229, 231, 249, 250, 252, 272, 274
Dollar Value - 27, 231
Mill Consumption - 50-51, 52, 74, 201, 226
Net Available - 12-13, 34, 94, 188, 201, 252
Producers - 138-141, 157, 240-247
Production - See also Quarterly Data
U.S. - 6, 12, 48-49, 89, 102-103, 106-107, 110-111, 160-161, 164-165, 266
World - 12-13, 110-111, 158-165, 168-169
Quarterly Data - 29-30, 34, 60, 94, 148, 188, 234, 252, 270
Shipments & Stock - See MONTHLY DATA & QUARTERLY DATA
Total U.S. Shipments - 11
Worldwide Demand - 97, 156

C8850-1
2/10/89

TEXTILE ORGANON

Volume 60, No. 1 ☐ January 1989 A publication of *Textile Economics Bureau, Inc.*

Highlights

- Capacity Utilization Review...begins on page 3.
- Annual Shipment Summary...see page 10.
- Worldwide Net Available Supply...begins on page 14.

SHIPMENTS:

In December, total manufactured fiber shipments reached 799 million pounds, 4% above the 769 million pounds shipped in November. For the year 1988 total manufactured fiber shipments were 9150 million pounds, ahead 2% over the previous period.

December shipments of noncellulosic filament yarn rose 3% to 362 million pounds and staple+tow rose 5% to 389 million pounds.

Contributing to the increase in shipments over the previous month were polyester textile yarn up 15 million pounds or 18% and polyester staple up 23 million pounds or 11%.

TABLE 1:
TOTAL U.S. MANUFACTURED FIBER SHIPMENTS
MILLION POUNDS & *PERCENT CHANGE*

ITEM	1988 DEC	1988 NOV	% CHG 12-88/11-88	1987 DEC	% CHG 12-88/12-87	YEAR TO DATE 1988	YEAR TO DATE 1987	% CHG YTD 1988/1987
CELLULOSIC								
YARN	20.0	17.0	*+17.6*	18.9	*+5.8*	216.7	191.7	*+13.0*
RAYON STAPLE	28.0	29.1	*-3.8*	36.6	*-23.5*	406.5	415.5	*-2.2*
TOTAL CELLULOSIC	**48.0**	**46.1**	***4.1***	**55.5**	***-13.5***	**623.2**	**607.2**	***+2.6***
NONCELLULOSIC								
YARN+MONOFILAMENT								
NYLON - INDUSTRIAL	31.4	33.7	*-6.8*	30.4	*+3.3*	375.2	373.4	*+0.5*
- CARPET	76.2	82.2	*-7.3*	72.0	*+5.8*	976.2	941.6	*+3.7*
- TEXTILE[a]	36.7	34.0	*+7.9*	31.1	*+18.0*	386.9	378.8	*+2.1*
POLYESTER - INDUSTRIAL	31.3	28.7	*+9.1*	28.8	*+8.7*	358.7	338.8	*+5.9*
- TEXTILE[a]	93.5	79.0	*+18.4*	67.4	*+38.7*	871.9	841.5	*+3.6*
OLEFIN	93.0	95.6	*-2.7*	109.7	*-15.2*	1191.3	1143.8	*+4.2*
TOTAL YARN	**362.1**	**353.2**	***+2.5***	**339.4**	***+6.7***	**4160.2**	**4017.9**	***+3.5***
STAPLE+TOW+FIBERFILL								
NYLON	78.0	77.9	*0.1*	66.1	*+18.0*	963.9	985.5	*-2.2*
ACRYLIC+MODACRYLIC	49.1	50.1	*-2.0*	52.0	*-5.6*	590.2	594.4	*-0.7*
POLYESTER	232.4	209.0	*+11.2*	209.2	*+11.1*	2449.1	2369.2	*+3.4*
OLEFIN	29.5	33.0	*-10.6*	30.9	*-4.5*	363.7	363.9	*-0.1*
TOTAL STAPLE	**389.0**	**370.0**	***+5.1***	**358.2**	***+8.6***	**4366.9**	**4313.0**	***+1.2***
TOTAL NONCELLULOSIC	**751.1**	**723.2**	***+3.9***	**697.6**	***+7.7***	**8527.1**	**8330.9**	***+2.4***
TOTAL MANUFACTURED FIBER	**799.1**	**769.3**	***+3.9***	**753.1**	***+6.1***	**9150.3**	**8938.1**	***+2.4***
TOTAL SHIPMENTS DIVIDED AS -								
DOMESTIC SHIPMENTS[b]	738.7	708.4	*+4.3*	687.7	*+7.4*	8529.8	8371.6	*+1.9*
EXPORTS[c]	60.4	60.9	*-0.8*	65.4	*-7.6*	620.5	566.5	*+9.5*

a. Includes low denier industrial yarn.
b. Includes olefin exports.
c. Excludes olefin exports.

Textile Organon

A Monthly Review

JANUARY 1989

CONTENTS

Features

Capacity Utilization Review 3-9
- Review of Production, Producing Capacity & Capacity Utilization 3
- Summary of Annual Production 4
- Summary of Producing Capacities 5
- Graph 1: Noncellulosic Fiber Production, Capacity & Capacity Utilization 6
- Summary of Capacity Utilization Rates 7
- Graph 2: Nylon Carpet Yarn Capacity & Production 8
- Graph 3: Polyester Textile Yarn Capacity & Production 8
- Graph 4: Polyester Staple+Tow Capacity & Production 8
- Production of Noncellulosic & Cellulosic Fiber as a Percentage of Total Manufactured Fiber Production 9
- Producing Capacity of Noncellulosic & Cellulosic Fibers as a Percentage of Total Manufactured Fiber Capacity 9

Annual Shipment Summary 10
- Graph 5: Total Manufactured Fiber Production & Shipments 10
- Total Manufactured Fiber Shipments 10

Worldwide Net Available Supply 14-17
- 1987 Manufactured Fiber Production, Import, Export & Net Available Supply by Country 14-15
- Mill Consumption of Manufactured Fiber, Cotton & Wool in Selected Countries 16-17

Industry Regulars

Total U.S. Manufactured Fiber Shipments 1

Monthly U.S. Manufactured Fiber Data 11-13
- Imports by Country of Origin 11
- Imports by Fiber 12
- Exports by Fiber 13

Selected U.S. Fiber Data 18-19
- Annual Data 18
- Monthly Data 19

TEXTILE ECONOMICS BUREAU, INC.
Editor
Rosemarie D. Frick

Publishing Headquarters:
Textile Economics Bureau, Inc.
101 Eisenhower Parkway
Roseland, NJ 07068
U.S.A.
Telephone: (201) 228-1107
Facsimile: (201) 228-7598

ISSN 0040-5132

Copyright © 1989
Textile Economics Bureau, Inc.

TEXTILE ORGANON is published monthly. All rights reserved. This booklet may be reproduced in part if credit is given.

Subscription Rates
(payable in U.S. dollars with order):

ITEM	U.S.A.	OTHER
Annually (1 year only)	175.00	250.00
Schools & Nonprofit	75.00	125.00
Single Issues:		
June	100.00	150.00
September	60.00	90.00
All Others	30.00	50.00

Issues are sent by 1st class mail to U.S. subscribers and by airmail to foreign subscribers.

CAPACITY UTILIZATION REVIEW

***Editor's Note** : This issue features production, producing capacity and capacity utilization in the industry from 1978 to 1988. Capacity utilization rates are based on production and capacity sizes. Thus, a utilization rate can be raised by an increase in production, a decrease in capacity or a combination of these two.*

During this period, several notable trends surfaced. The growth of noncellulosic fiber production from 1978 (an increase of 9% by 1988) and a decline of cellulosic fiber production (a decline of 32% by 1988). During the same time, capacity for noncellulosic fiber remained virtually unchanged (9.6 billion pounds in 1988), while capacity for cellulosic fiber declined by 34%.

This report presents data in six tables and four graphs: Review of Production, Producing Capacity & Capacity Utilization; Summary of Annual Production (1978-1988); Summary of Producing Capacities (1978-1988); Summary of Capacity Utilization Rates (1978-1988); Production of Noncellulosic & Cellulosic Fibers as a Percentage of Total Manufactured Fiber Production; and Producing Capacity of Noncellulosic & Cellulosic Fibers as a Percentage of Total Manufactured Fiber Capacity. Graphs show noncellulosic fiber production, capacity & capacity utilization, and also capacity & production trends of nylon carpet yarn, polyester textile yarn and polyester staple+tow.

The Review of Production, Producing Capacity & Capacity Utilization at the bottom of this page, ties the three major components of this report - production, producing capacity and capacity utilization - into one table for easy reference.

For this report, Textile Economics Bureau **November** capacity survey data are used as the annual capacity figures. The Total Noncellulosic data in this report do not include Glass Fiber or miscellaneous fibers such as spandex and saran.

TABLE 2:
REVIEW OF PRODUCTION, PRODUCING CAPACITY & CAPACITY UTILIZATION [a]
MILLION POUNDS & *PERCENT*

FIBER TYPE	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
NONCELLULOSIC											
PRODUCTION	7768	8418	7874	7985	6442	7534	7473	7564	7828	8316	8489
CAPACITY	9555	9784	9627	9696	9334	9274	9460	9558	9207	9350	9592
UTILIZATION (%)	*81.3*	*86.0*	*81.8*	*82.4*	*69.0*	*81.2*	*79.0*	*79.1*	*85.0*	*88.9*	*88.5*
CELLULOSIC											
PRODUCTION	905	930	806	770	584	640	628	558	619	605	614
CAPACITY	1086	1109	909	898	895	845	845	784	709	709	713
UTILIZATION (%)	*83.3*	*83.9*	*88.7*	*85.7*	*65.3*	*75.7*	*74.3*	*71.2*	*87.3*	*85.3*	*86.1*
TOTAL MANUFACTURED FIBERS											
PRODUCTION	8673	9348	8680	8755	7026	8174	8101	8122	8447	8921	9103
CAPACITY	10641	10893	10536	10594	10229	10119	10305	10342	9916	10059	10305
UTILIZATION (%)	*81.5*	*85.8*	*82.4*	*82.6*	*68.7*	*80.8*	*78.6*	*78.5*	*85.2*	*88.7*	*88.3*

a. Does not include data for Glass Fiber, saran, spandex, Aramid after 1982 or Vinyon after 1986.

TABLE 3:
SUMMARY OF ANNUAL PRODUCTION
MILLION POUNDS

YEAR	CELLULOSIC FIBERS						TOTAL CELL.
	FILAMENT YARN+MONOFIL			STAPLE+TOW			
	RAYON	ACETATE	TOTAL	RAYON	ACETATE	TOTAL	
1978	62	301	363	535	7	542	905
1979	57	317	374	549	7	556	930
1980	47	309	356	443	7	450	806
1981	48	257	305	461	4	465	770
1982	33	195	228	355	1	356	584
1983	36	228	264	375	1	376	640
1984	41	198	239	389	+	389	628
1985	b	b	205	b	b	353	558
1986	b	b	215	b	b	404	619
1987	b	b	191	b	b	414	605
1988	b	b	214	b	b	400	614

YEAR	NONCELLULOSIC FIBERS														TOTAL NON-CELL.
	YARN+MONOFILAMENTS									STAPLE+TOW					
	NYLON+ARAMID [a]				POLYESTER			OLEFIN	TOTAL YARN	NYLON+ ARAMID [a]	POLY-ESTER	ACRYLIC+ MODACR	OLEFIN+ VINYON [c]	TOTAL STAPLE	
	IND	TEX	CARP	TOTAL	IND	TEX	TOTAL								
1978	438	503	713	1654	355	1209	1564	597	3815	896	2236	726	95	3953	7768
1979	499	528	755	1782	373	1342	1715	639	4136	939	2462	761	120	4282	8418
1980	437	466	728	1631	286	1176	1462	632	3725	727	2527	779	116	4149	7874
1981	410	461	710	1581	309	1260	1569	643	3793	752	2607	691	142	4192	7985
1982	315	354	573	1242	292	921	1213	585	3040	685	1955	624	138	3402	6442
1983	315	415	762	1492	299	1060	1359	716	3567	926	2184	671	186	3967	7534
1984	379	394	804	1577	316	884	1200	748	3525	835	2192	671	250	3948	7473
1985	343	353	819	1515	294	1027	1321	954	3790	828	2020	631	295	3774	7564
1986	339	360	907	1606	319	854	1173	1058	3837	908	2132	616	335	3991	7828
1987	364	381	952	1697	337	842	1179	1134	4010	992	2362	592	360	4306	8316
1988	377	382	968	1727	366	861	1227	1192	4146	939	2452	588	364	4343	8489

a. Data since 1982 do not include Aramid.
b. Detail withheld due to company disclosure.
c. Data for Vinyon not included after 1986.

Rayon yarn includes industrial (high tenacity) yarn and textile (regular+intermediate tenacity) yarn+monofilaments.

Acetate includes diacetate and triacetate. The acetate staple+tow data do not include tow for cigarette filtration.

Olefin includes polypropylene yarn+monofilaments+spunbonded+film fiber and polyethylene monofilaments+film fiber.

For the purposes of this report, production data for miscellaneous fibers, such as saran and spandex, are not included.

TABLE 4:
SUMMARY OF PRODUCING CAPACITIES
MILLION POUNDS

YEAR[a]	CELLULOSIC FIBERS: FILAMENT YARN+MONOFIL: RAYON	ACETATE	TOTAL	STAPLE+TOW: RAYON	ACETATE	TOTAL	TOTAL CELL.
1978	83	330	413	665	8	673	1086
1979	75	355	430	671	8	679	1109
1980	63	324	387	514	8	522	909
1981	52	332	384	509	5	514	898
1982	63	318	381	510	4	514	895
1983	63	268	331	510	4	514	845
1984	63	268	331	510	4	514	845
1985	b	b	269	510	5	515	784
1986	b	b	244	b	b	465	709
1987	b	b	244	b	b	465	709
1988	b	b	244	b	b	469	713

YEAR[a]	NONCELLULOSIC FIBERS: YARN+MONOFILAMENTS: NYLON+ARAMID[c] IND	TEX	CARP	TOTAL	POLYESTER IND	TEX	TOTAL	OLEFIN	TOTAL YARN	STAPLE+TOW: NYLON+ ARAMID[c]	POLY- ESTER	ACRYLIC+ MODACR	OLEFIN+ VINYON[d]	TOTAL STAPLE	TOTAL NON- CELL.	GLASS FIBER
1978	510	565	908	1983	443	1643	2086	915	4984	1023	2554	865	129	4571	9555	1118
1979	513	579	950	2042	443	1699	2142	922	5106	1020	2673	839	146	4678	9784	1305
1980	515	551	910	1976	400	1637	2037	900	4913	991	2759	830	134	4714	9627	1473
1981	514	553	893	1960	316	1481	1797	989	4746	1010	2839	835	266	4950	9696	1561
1982	474	513	925	1912	338	1265	1603	1038	4553	978	2700	832	271	4781	9334	1718
1983	440	494	907	1841	337	1170	1507	1099	4447	1017	2704	826	280	4827	9274	1618
1984	437	470	926	1833	342	1162	1504	1142	4479	1054	2784	807	336	4981	9460	1743
1985	437	466	965	1868	374	1097	1471	1329	4668	1067	2785	631	407	4890	9558	1769
1986	435	398	964	1797	401	1021	1422	1326	4545	1077	2491	637	457	4662	9207	1763
1987	418	404	1005	1827	399	929	1328	1402	4557	1137	2522	652	482	4793	9350	1642
1988	421	423	1053	1897	408	968	1376	1470	4743	1137	2584	642	486	4849	9592	1729

a. **All annual capacity data are as of November of that year.**
b. Detail withheld due to disclosure.
c. Data since 1982 do not include Aramid.
d. Data for Vinyon not included after 1986.

The data do not include acetate tow for cigarette filtration.

IND means industrial yarn and monofil, i.e., coarser than 500 denier with an Instron tenacity of 7 grams or more per denier.

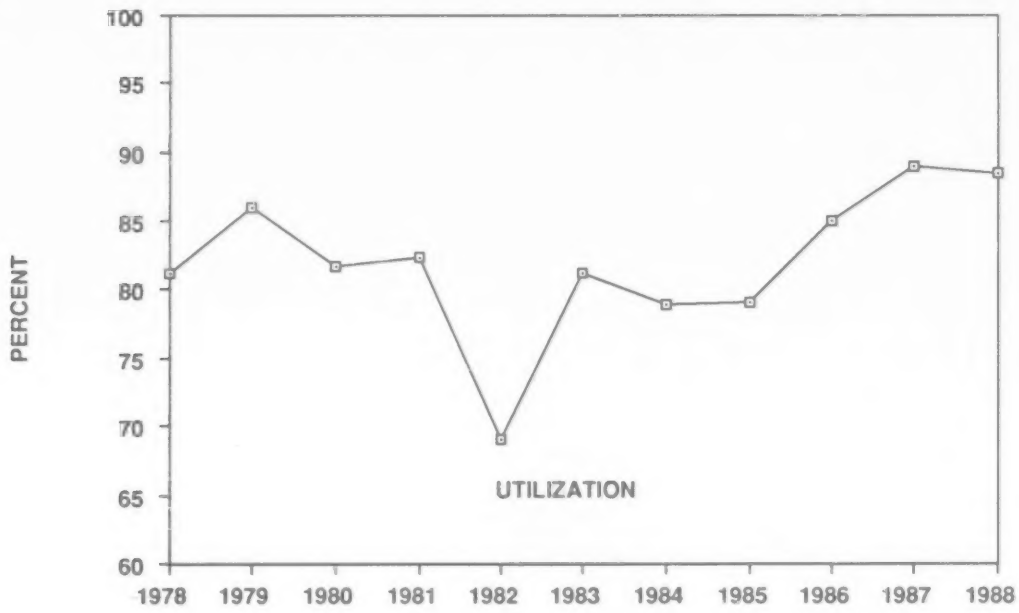
CARP means bulked continuous filament yarn for carpets.

TEX means yarn & monofil for other (textile) applications. Low denier industrial yarn is tabulated here also.

Olefin includes polyethylene & polypropylene. Not included here are data on spunbonded polyethylene, monofilament bristles and film fiber used for decorative or tying ribbon, etc. Olefin monofil includes the circular and rectangular ribbon cross sections plus spunbonded polypropylene. Olefin film fiber includes slit and split or fibrillated film.

For the purposes of this report, capacity data for miscellaneous fibers, such as saran and spandex, are not included.

GRAPH 1:
NONCELLULOSIC FIBER PRODUCTION, CAPACITY & CAPACITY UTILIZATION



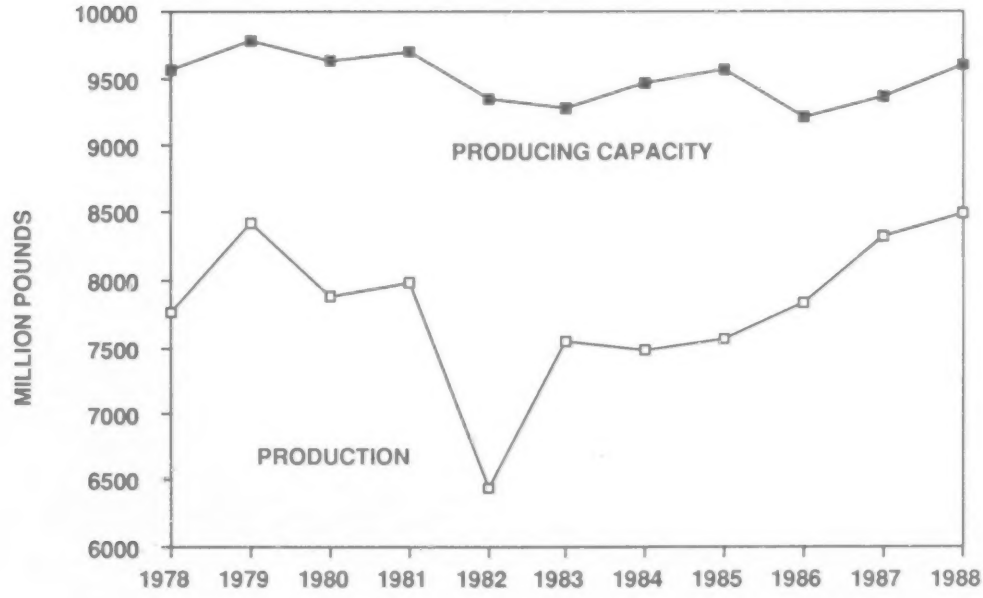


TABLE 5:
SUMMARY OF CAPACITY UTILIZATION RATES
PERCENT (%)

	CELLULOSIC FIBERS						
	FILAMENT YARN+MONOFIL			STAPLE+TOW			TOTAL
YEAR	RAYON	ACETATE	TOTAL	RAYON	ACETATE	TOTAL	CELL.
1978	74.7	91.2	87.9	80.5	87.5	80.5	83.3
1979	76.0	89.3	87.0	81.8	87.5	81.9	83.9
1980	74.6	95.4	92.0	86.2	87.5	86.2	88.7
1981	92.3	77.4	79.4	90.6	80.0	90.5	85.7
1982	52.4	61.3	59.8	69.6	25.0	69.3	65.3
1983	57.1	85.1	79.8	73.5	25.0	73.2	75.7
1984	65.1	73.9	72.2	b	b	75.7	74.3
1985	b	b	76.2	b	b	68.5	71.2
1986	b	b	88.1	b	b	86.9	87.3
1987	b	b	78.3	b	b	89.0	85.3
1988	b	b	87.7	b	b	85.3	86.1

	NONCELLULOSIC FIBERS [c]													
	YARN+MONOFILAMENTS									STAPLE+TOW					TOTAL
	NYLON+ARAMID [a]				POLYESTER					NYLON+	POLY-	ACRYLIC+	OLEFIN+	TOTAL	NON-
YEAR	IND	TEX	CARP	TOTAL	IND	TEX	TOTAL	OLEFIN	TOTAL YARN	ARAMID [a]	ESTER	MODACR	VINYON [d]	STAPLE	CELL.
1978	85.9	89.0	78.5	83.4	80.1	73.6	75.0	65.2	76.5	87.6	87.5	83.9	73.6	86.5	81.3
1979	97.3	91.2	79.5	87.3	84.2	79.0	80.1	69.3	81.0	92.1	92.1	90.7	82.2	91.5	86.0
1980	84.9	84.6	80.0	82.5	71.5	71.8	71.8	70.2	75.8	73.4	91.6	93.9	86.6	88.0	81.8
1981	79.8	83.4	79.5	80.7	97.8	85.1	87.3	65.0	79.9	74.5	91.8	82.8	53.4	84.7	82.4
1982	66.5	69.0	61.9	65.0	86.4	72.8	75.7	56.4	66.8	70.0	72.4	75.0	50.9	71.2	69.0
1983	71.6	84.0	84.0	81.0	88.7	90.6	90.2	65.2	80.2	91.1	80.8	81.2	66.4	82.2	81.2
1984	86.7	83.8	86.8	86.0	92.4	76.1	79.8	65.5	78.7	79.2	78.7	83.1	74.4	79.3	79.0
1985	78.5	75.8	84.9	81.1	78.6	93.6	89.8	71.8	81.2	77.6	72.5	100.0	72.5	77.2	79.1
1986	77.9	90.5	94.1	89.4	79.6	83.6	82.5	79.8	84.4	84.3	85.6	96.7	73.3	85.6	85.0
1987	87.1	94.3	94.7	92.9	84.5	90.6	88.8	80.9	88.0	87.2	93.7	90.8	74.7	89.8	88.9
1988	89.5	90.3	91.9	91.0	89.7	88.9	89.2	81.1	87.4	82.6	94.9	91.6	74.9	89.6	88.5

All percentages based on data in the tables on pages 4 and 5.

a. Data since 1982 do not include Aramid.

b. Detail withheld due to company disclosure.

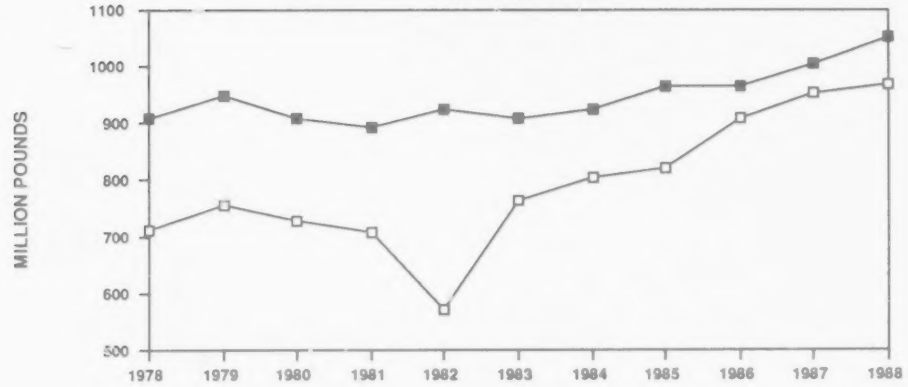
c. Data on Glass Fiber are no longer available due to company disclosure. The series including Glass Fiber was last published in the January 1984 issue.

d. Data for Vinyon not included after1986

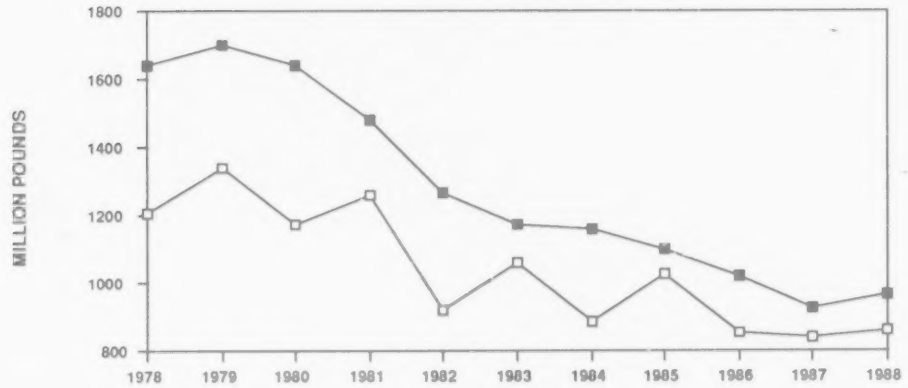
DU PONT TO BUY HERCULES CARPET FIBER BUSINESS

Hercules has agreed to sell its polypropylene carpet filament fiber production to Du Pont. For three to five years Hercules will continue to produce the fiber for Du Pont. After that time, expanded Du Pont capacity will support forecasted sales. Hercules retains its Oxford, GA fiber plant and its upholstery and wall covering fibers business. Hercules also announced that it has started designing a new 25 million pound/year polypropylene tow plant for cigarette filters. The site for this facility hasn't been chosen, and it may be located outside of the U.S. (Hercules news release)

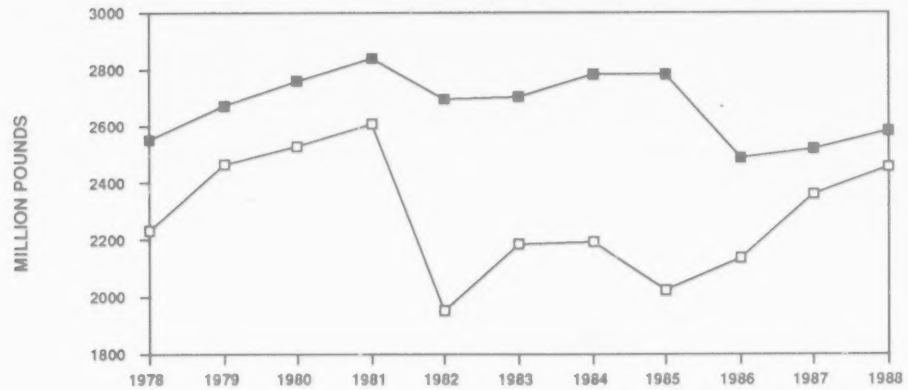
GRAPH 2:
NYLON CARPET YARN CAPACITY & PRODUCTION
MILLION POUNDS



GRAPH 3:
POLYESTER TEXTILE YARN CAPACITY & PRODUCTION [a]
MILLION POUNDS



GRAPH 4:
POLYESTER STAPLE+TOW CAPACITY & PRODUCTION
MILLION POUNDS



a. Includes low denier industrial.

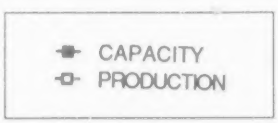


TABLE 6:
PRODUCTION OF NONCELLULOSIC & CELLULOSIC FIBERS[a]
AS A PERCENTAGE OF TOTAL MANUFACTURED FIBER PRODUCTION
MILLION POUNDS & *PERCENT*

YEAR	NON-CELLULOSIC	%	CELLULOSIC	%	TOTAL MANUFACTURED FIBER	%
1978	7783	*89.6*	905	*10.4*	8688	*100.0*
1979	8436	*90.1*	930	*9.9*	9366	*100.0*
1980	7893	*90.7*	806	*9.3*	8699	*100.0*
1981	8006	*91.2*	770	*8.8*	8776	*100.0*
1982	6460	*91.7*	584	*8.3*	7044	*100.0*
1983	7538	*92.2*	640	*7.8*	8178	*100.0*
1984	7472	*92.2*	628	*7.8*	8100	*100.0*
1985	7564	*93.1*	558	*6.9*	8122	*100.0*
1986	7828	*92.7*	619	*7.3*	8447	*100.0*
1987	8316	*93.2*	605	*6.8*	8921	*100.0*
1988	8489	*93.3*	614	*6.7*	9103	*100.0*

a. Data on Glass Fiber are no longer available due to company disclosure.
The series including Glass Fiber was last published in the January 1984 issue.

TABLE 7:
PRODUCING CAPACITY OF NONCELLULOSIC & CELLULOSIC FIBERS[a]
AS A PERCENTAGE OF TOTAL MANUFACTURED FIBER CAPACITY
MILLION POUNDS *& PERCENT*

YEAR	NON-CELLULOSIC	%	CELLULOSIC	%	TOTAL MANUFACTURED FIBER	%
1978	9555	*89.8*	1086	*10.2*	10641	*100.0*
1979	9784	*89.8*	1109	*10.2*	10893	*100.0*
1980	9627	*91.4*	909	*8.6*	10536	*100.0*
1981	9696	*91.5*	898	*8.5*	10594	*100.0*
1982	9334	*91.3*	895	*8.7*	10229	*100.0*
1983	9274	*91.6*	845	*8.4*	10119	*100.0*
1984	9460	*91.8*	845	*8.2*	10305	*100.0*
1985	9558	*92.4*	784	*7.6*	10342	*100.0*
1986	9207	*92.8*	709	*7.2*	9916	*100.0*
1987	9350	*93.0*	709	*7.0*	10059	*100.0*
1988	9592	*93.1*	713	*6.9*	10305	*100.0*

a. Data on Glass Fiber are no longer available due to company disclosure.
The series including Glass Fiber was last published in the January 1984 issue.

GRAPH 5:
TOTAL MANUFACTURED FIBER PRODUCTION & SHIPMENTS
MILLION POUNDS

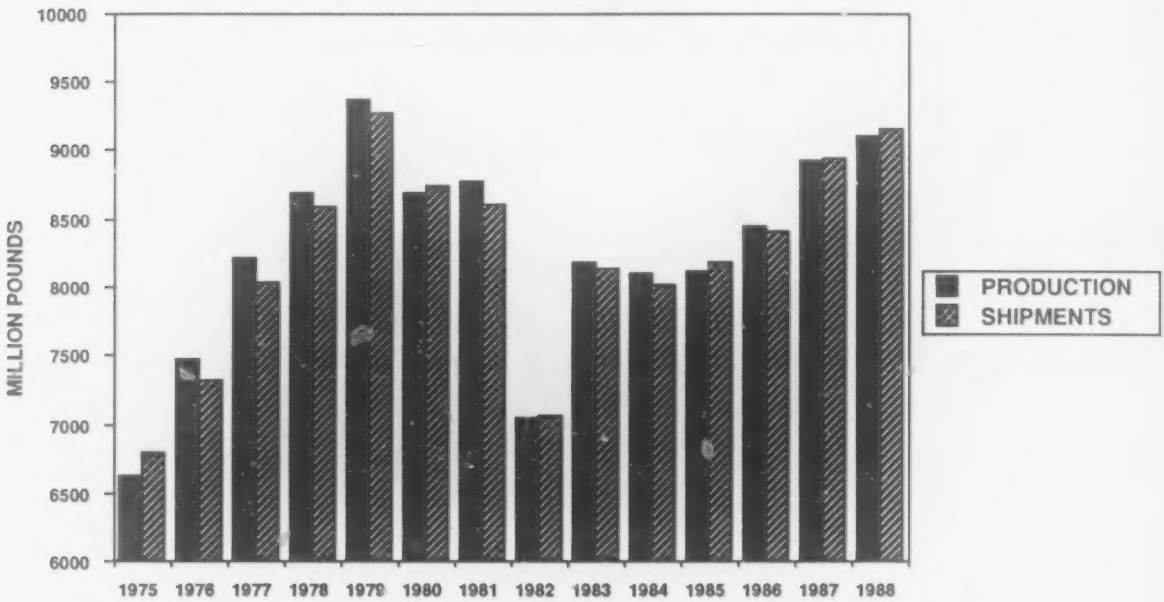


TABLE 8:
TOTAL MANUFACTURED FIBER SHIPMENTS
MILLION POUNDS & *PERCENT CHANGE*

ITEM	1988	1987	% CHG. 1988/1987	1986	% CHG. 1988/1986	1985	% CHG. 1988/1985
CELLULOSIC							
YARN	216.7	191.7	*+13.0*	212.3	*+2.1*	210.1	*+2.1*
RAYON STAPLE	406.5	415.5	*-2.2*	403.8	*+0.7*	358.7	*+0.7*
TOTAL CELLULOSIC	**623.2**	**607.2**	*+2.6*	**616.1**	*+1.2*	**568.8**	*+1.2*
NONCELLULOSIC							
YARN+MONOFILAMENTS							
NYLON - INDUSTRIAL	375.2	373.4	*+0.5*	333.4	*+12.5*	345.1	*+12.5*
- CARPET	976.2	941.6	*+3.7*	898.5	*+8.6*	835.4	*+8.6*
- TEXTILE [a]	386.9	378.8	*+2.1*	360.5	*+7.3*	355.3	*+7.3*
POLYESTER - INDUSTRIAL	358.7	338.8	*+5.9*	313.9	*+14.3*	292.1	*+14.3*
- TEXTILE [a]	871.9	841.5	*+3.6*	855.8	*+1.9*	1020.4	*+1.9*
OLEFIN	1191.3	1143.8	*+4.2*	1059.7	*+12.4*	951.1	*+12.4*
TOTAL YARN	**4160.2**	**4017.9**	*+3.5*	**3821.8**	*+8.9*	**3799.4**	*+8.9*
STAPLE+TOW+FIBERFILL							
NYLON	963.9	985.5	*-2.2*	908.2	*+6.1*	843.6	*+6.1*
ACRYLIC+MODACRYLIC	590.2	594.4	*-0.7*	614.1	*-3.9*	643.8	*-3.9*
POLYESTER	2449.1	2369.2	*+3.4*	2123.4	*+15.3*	2038.6	*+15.3*
OLEFIN+VINYON [b]	363.7	363.9	*-0.1*	331.5	*+9.7*	288.2	*+9.7*
TOTAL STAPLE	**4366.9**	**4313.0**	*+1.2*	**3977.2**	*+9.8*	**3814.2**	*+9.8*
TOTAL NONCELLULOSIC	**8527.1**	**8330.9**	*+2.4*	**7799.0**	*+9.3*	**7613.6**	*+9.3*
TOTAL MANUFACTURED FIBER	**9150.3**	**8938.1**	*+2.4*	**8415.1**	*+8.7*	**8182.4**	*+8.7*

a. Includes low denier industrial yarn.
b. Excludes Vinyon after 1986.

TABLE 9:
SELECTED U.S. MANUFACTURED FIBER IMPORTS FOR CONSUMPTION BY COUNTRY OF ORIGIN
THOUSAND POUNDS

ITEMS & COUNTRY	1988 JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR TO DATE 1988	1987
CELLULOSIC YARN, MONOFIL & STRIPS														
AUSTRIA	0	0	0	0	0	0	0	0	0	0	0		0	244
BRAZIL	54	0	28	55	28	13	69	29	36	36	28		376	584
CANADA	426	481	507	292	592	827	427	739	779	767	722		6559	2819
GERMANY, FED. REP. OF	353	635	281	227	388	313	358	355	315	336	732		4293	4491
JAPAN	277	131	45	121	62	63	54	17	27	34	69		900	580
MEXICO	62	53	18	81	70	68	115	86	114	46	26		739	592
NETHERLANDS	190	229	228	289	142	104	176	218	266	73	271		2186	1033
ALL OTHER COUNTRIES [a]	11	1	21	67	44	178	35	86	109	12	173		737	315
TOTAL CELLULOSIC YARN	**1373**	**1530**	**1128**	**1132**	**1326**	**1566**	**1234**	**1530**	**1646**	**1304**	**2021**		**15790**	**10658**
CELLULOSIC STAPLE+TOW														
CANADA	1088	774	974	797	1355	1551	1309	2131	1880	1604	1888		15351	10600
ITALY	34	73	19	0	33	0	39	32	0	64	33		327	724
JAPAN	99	0	91	46	37	68	101	45	237	347	195		1266	962
SWEDEN	0	41	45	0	20	0	0	0	0	0	0		106	329
UNITED KINGDOM	12	0	79	54	0	24	113	50	40	21	41		434	324
ALL OTHER COUNTRIES [b]	3	2	10	51	43	+	70	2	0	1	0		182	126
TOTAL CELLULOSIC STAPLE+TOW	**1236**	**890**	**1218**	**948**	**1488**	**1643**	**1632**	**2260**	**2157**	**2037**	**2157**		**17666**	**13065**
NONCELLULOSIC YARN, MONOFIL & STRIPS														
BELGIUM	1436	1117	1665	894	172	530	803	630	1016	1089	769		10121	11313
BRAZIL	0	7	0	199	169	109	92	203	80	322	71		1252	19
CANADA	1448	1872	2178	2156	2451	1677	1568	2139	1766	2038	1996		21289	16399
COSTA RICA	606	570	382	533	514	523	692	442	606	390	623		5881	6245
DENMARK	0	0	0	0	61	30	60	0	30	30	60		271	215
FRANCE	767	588	723	338	272	588	642	960	410	326	473		6087	5423
GERMANY, FED. REP. OF	1074	1355	1543	1078	1495	1270	1130	1342	1408	1115	1119		13929	21655
IRELAND	37	34	74	114	150	78	192	114	138	118	157		1206	448
ISRAEL	388	309	176	304	182	254	273	281	208	208	191		2774	2451
ITALY	761	811	407	1678	941	412	1403	829	1051	747	732		9772	12022
JAPAN	648	212	444	277	282	338	304	337	328	311	282		3763	6611
KOREA, REP. OF	3	23	33	63	0	40	1	0	0	0	0		163	403
MEXICO	1428	2004	1582	978	1622	1660	1545	1659	1758	1657	1943		17836	18747
NETHERLANDS	49	42	26	31	57	4	16	10	116	25	37		413	1039
ROMANIA	12	58	41	160	122	519	0	0	0	0	0		912	166
SINGAPORE	81	41	44	19	34	35	23	23	23	44	23		390	430
TAIWAN	12	36	12	53	69	34	70	103	164	103	64		720	611
UNITED KINGDOM	676	753	684	632	917	751	819	1050	731	680	1163		8856	7838
ALL OTHER COUNTRIES [c]	192	168	185	58	54	156	149	283	167	214	131		1757	2287
TOTAL NONCELLULOSIC YARN	**9618**	**10000**	**10199**	**9565**	**9564**	**9008**	**9782**	**10405**	**10000**	**9417**	**9834**		**107392**	**114322**
NONCELLULOSIC STAPLE+TOW														
AUSTRIA	601	727	752	1321	296	481	506	867	270	471	235		6527	2175
AUSTRALIA	38	0	36	19	0	164	46	18	19	70	51		461	262
BELGIUM	35	0	18	18	634	0	18	193	10	0	39		965	179
BRAZIL	0	0	0	0	0	0	0	0	0	0	140		140	1673
CANADA	2003	2183	2981	2720	2797	2353	2353	2020	2692	2590	2195		26887	27788
FRANCE	934	799	800	957	1257	934	826	1220	675	926	881		10209	7290
GERMANY, FED. REP. OF	2738	3040	2503	2478	3319	2475	2793	3377	2357	2381	2639		30100	30062
INDIA	0	0	0	5	2575	2050	1556	2239	1068	1070	0		10563	1
IRELAND	80	123	162	325	406	240	362	201	312	376	148		2735	1579
ITALY	130	362	145	241	5	37	44	190	85	65	118		1422	12454
JAPAN	1963	2057	1894	2166	1912	3095	1771	3016	2187	2926	2566		25553	21[illegible]02
KOREA, REP. OF	1355	1516	1456	1580	1295	1604	2058	1908	2699	1931	1405		18807	10484
MALAYSIA	0	95	48	48	0	95	48	48	0	48	48		478	564
MEXICO	303	549	210	502	985	1043	822	800	605	701	466		6986	19780
ROMANIA	448	0	86	664	230	893	0	0	53	0	0		2374	4060
SWITZERLAND	102	21	153	189	123	122	160	127	148	72	159		1376	1016
TAIWAN	1986	1109	1425	1112	1024	1384	549	1172	1321	493	195		11770	21212
UNITED KINGDOM	1604	1503	2175	1920	1777	1745	1184	2046	1495	2501	2655		20605	13339
ALL OTHER COUNTRIES [d]	22	30	12	85	16	25	146	283	49	17	11		696	1348
TOTAL NONCELLULOSIC STAPLE+TOW	**14342**	**14114**	**14856**	**16350**	**18651**	**18740**	**15242**	**19725**	**16045**	**16638**	**13951**		**178654**	**176358**

\+ Less than 1 thousand pounds.

a. United Kingdom 325, Morocco 146, Singapore 108, France 65, Korea, Rep. of 51, Taiwan 20, Norway 12, Italy 7, Australia 3.

b. Austria 111, France 63, Germany, Fed. Rep. of 2, Luxembourg 2, Mexico 2, Belgium 2.

c. Spain 437, Chile 290, Australia 166, Argentina 152, Sweden138, Norway 117, Gibraltor 106, Turkey 87, Luxembourg 82, Switzerland 73, Austria 48, Ecuador 23, China, PRC 20, Hong Kong 13, Thailand 4, Sri Lanka 1.

d. Gibraltar 259, Netherlands 125, Israel 102, New Caledonia 70, Hong Kong 60, Finland 57, Spain 8, China, PRC 6, Egypt 5, Greece 2, Portugal 2, Philippines.

TABLE 10:
U.S. MANUFACTURED FIBER IMPORTS FOR CONSUMPTION
THOUSAND POUNDS

ITEM	COMMODITY NUMBER AS OF 1/1/87	1988 JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR TO DATE 1988	1987
CELLULOSIC FIBER															
YARN - SINGLES															
TEXTURED	310.0106 & .0206	0	+	0	64	18	16	60	56	93	269	495		1071	305
OTHER	310.0130 & .0230[a]	1362	1468	1021	995	1210	1412	1174	1318	1496	945	1451		13852	10140
MONOFILAMENTS	309.0310 & .0610	0	+	0	1	1	0	0	3	1	0	0		6	5
STRIPS, $1/LB & UNDER	309.2000*	11	62	107	72	97	138	0	153	56	90	75		861	208
SUBTOTAL ABOVE		**1373**	**1530**	**1128**	**1132**	**1326**	**1566**	**1234**	**1530**	**1646**	**1304**	**2021**		**15790**	**10658**
STAPLE	309.4320 & .4325	1182	889	1107	934	1354	1492	1406	2123	1995	1805	2078		16365	12272
GROUPED FILAMENTS	309.3010 & .3310	54	1	111	14	134	151	226	137	162	232	79		1301	793
SUBTOTAL ABOVE		**1236**	**890**	**1218**	**948**	**1488**	**1643**	**1632**	**2260**	**2157**	**2037**	**2157**		**17666**	**13065**
WASTE, ADVANCED & NOT ADVANCED	309.6615 & .7510	0	1	4	0	0	0	0	0	0	0	0		5	58
NONCELLULOSIC FIBER															
YARN - SINGLES															
TEXTURED - NYLON															
LESS THAN 450 DENIER	310.0107 & .0207	341	297	204	271	150	176	175	235	223	289	160		2521	1894
450 DENIER AND OVER	310.0108 & .0208	1503	1643	1531	2018	1472	1080	1980	1799	1177	1062	1029		16294	25686
- POLYESTER	310.0110 & .0210	989	1368	1024	881	1327	1749	1054	1116	1363	1387	1685		13943	13951
- OTHER	310.0114 & .0214	2158	1829	2816	1920	1882	1811	2234	2290	2567	2558	1965		24030	21251
OTHER - NYLON	310.0149 & .0249	1154	1567	1386	1249	1672	1267	1226	1732	1463	1335	1820		15871	21748
- POLYESTER	310.0150 & .0250	2153	1631	1733	1657	1707	1719	1992	1964	1920	1476	1803		19755	17825
- OTHER	310.0170 & .0270[b]	762	1085	876	922	469	453	418	493	658	680	783		7599	6155
MONOFILAMENTS	309.0200 & .0330[c]	381	384	307	374	454	483	418	510	355	357	298		4321	3483
STRIPS, OVER $1/LB	309.2100 & .2500*	177	196	322	273	431	270	285	266	274	273	291		3058	2329
SUBTOTAL ABOVE		**9618**	**10000**	**10199**	**9565**	**9564**	**9008**	**9782**	**10405**	**10000**	**9417**	**9834**		**107392**	**114322**
STAPLE - NYLON	309.4331 & .4351	1696	1306	1915	2115	1707	1284	1468	1724	2177	2636	1842		19870	37170
- POLYESTER	309.4336 & .4361	4653	5670	4716	4933	7498	8268	6130	8251	7923	5495	4019		67556	66592
- ACRYLIC	309.4366	1214	953	1179	1399	1647	1377	1257	1513	533	1308	1252		13632	14532
- OLEFIN	309.4371	83	104	534	499	165	174	40	99	0	167	207		2072	491
- OTHER	309.4341 & .4390	1350	1625	1750	2008	969	1908	1239	1632	1279	1694	1167		16621	12035
GROUPED FILAMENTS															
NYLON	309.3030 & .3200	3713	2877	3289	3285	4091	3619	3596	3785	2430	2612	2879		36176	29715
POLYESTER	309.3040 & .3340	441	215	65	421	304	377	426	701	278	602	342		4172	2799
ACRYLIC	309.3050 & .3350	1086	1331	1249	1664	1631	1702	992	1855	1348	1939	2113		16910	11503
OTHER	309.3065 & .3365	106	33	159	26	639	31	94	165	77	185	130		1645	1521
SUBTOTAL ABOVE		**14342**	**14114**	**14856**	**16350**	**18651**	**18740**	**15242**	**19725**	**16045**	**16638**	**13951**		**178654**	**176358**
WASTE, NOT ADVANCED															
- NYLON	309.6625	2940	1991	1933	1842	2391	2267	1716	1344	1323	1423	1853		21023	25078
- POLYESTER	309.6630	550	486	1073	637	470	1233	716	500	1153	933	1333		9084	8711
- ACRYLIC	309.6645	0	0	21	110	0	2	0	0	0	2	32		167	289
- OTHER	309.6660	221	273	392	157	271	260	101	241	194	256	182		2548	4600
NOILS & GARNETTED FIBERS	309.7000*	76	0	0	33	0	0	0	0	0	0	0		109	62
OTHER WASTE, ADVANCED	309.7525 - .7555	596	596	637	323	366	280	286	435	565	393	289		4766	5199
SUBTOTAL ABOVE		**4383**	**3346**	**4056**	**3102**	**3498**	**4042**	**2819**	**2520**	**3235**	**3007**	**3689**		**37697**	**43939**
TOTAL MANUFACTURED ABOVE		**30952**	**29881**	**31461**	**31097**	**34527**	**34999**	**30709**	**36440**	**33083**	**32403**	**31652**		**357204**	**358400**
OTHER MANUFACTURED FIBER TOPS, YARN & THREAD															
YARN - PLIED															
TEXTURED - CELLULOSIC	310.1506	0	0	+	0	0	0	0	0	0	0	0		+	5
- NONCELLULOSIC	310.1015[d]& .1205[e]	340	167	184	216	276	176	197	156	122	199	124		2157	3753
OTHER - CELLULOSIC	310.1030 & .1535[f]	15	21	34	34	19	22	16	42	50	79	30		362	518
- NONCELLULOSIC	310.1050 & .1070[g]	262	252	311	288	365	311	285	345	313	332	3169		6233	2995
SPUN YARN - CELLULOSIC	310.4005 & .4030[h]	62	95	122	20	109	74	112	47	49	70	35		795	1417
- OTHER	310.4015 & .4027[i]	2494	1488	1795	1424	2191	2829	1836	2062	1998	1207	1332		20656	34887
OTHER YARNS - NES, INCL. CHENILLE	310.6034 - .8000	1966	1941	1513	1955	1641	1113	2984	995	1478	2754	2539		20879	25857
HANDWORK YARNS & SEWING THREAD	310.9000 & .9310[j]	598	872	539	584	662	783	628	555	646	496	621		6984	8144
SLIVER, TOPS & ROVING	309.9000	271	287	351	530	234	181	359	398	63	161	530		3365	5372
GLASS FIBER	309.2800 & .2900[k]	2526	2429	2602	2286	2271	2344	2110	2469	1927	2373	1530		24867	27225
GRAND TOTAL ABOVE		**39486**	**37433**	**38912**	**38434**	**42295**	**42832**	**39236**	**43509**	**39729**	**40074**	**41562**		**443502**	**468573**

SOURCE: U.S. Census Bureau Report IM145X.

NES Not elsewhere specified.

\+ Less than 1 thousand pounds.

* These items are not reported by the Census Bureau as cellulosic vs. noncellulosic. Separation of cellulosic and noncellulosic quantities are estimated, based primarily on average declared value.

a. Also includes 310.0610.

b. Also includes 310.0530, .0550, .0630 & .0650.

c. Also includes 309.0340, .0365, .0500, .0630, .0640 & .0665.

d. There may be some acetate yarn in these data, but the Census figures do not permit a segregation.

e. Also includes 310.1210.

f. Also includes 310.2110.

g. Also includes 310.1510, .1514, .1550, 1555, .1570, .2050, .2130 & .2150.

h. Also includes 310.5005 & .5030.

i. Also includes 310.4046, .4047, .4050, .5015, .5046, .5047, .5049 & .5051.

j. Also includes 310.9320 & .9500.

k. Chiefly roving. Also includes 309.9800 & .9900.

TABLE 11:
U.S. EXPORTS OF MANUFACTURED FIBER
THOUSAND POUNDS

ITEM	COMMODITY NUMBER AS OF 1/1/87	1988 JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR TO DATE 1988	1987
CELLULOSIC FIBER															
FILAMENT YARN [a]															
TEXTURED	310.0004	27	2	6	31	61	5	11	59	10	5	4		221	571
OTHER [b]	310.0026	683	991	556	1220	1231	1269	582	1212	1765	730	781		11020	4765
MONOFILAMENTS	309.0110	89	36	5	36	9	45	0	28	9	0	0		257	244
STRIPS	309.2210	0	23	0	0	10	2	0	1	0	25	31		92	82
SUBTOTAL ABOVE		799	1052	567	1287	1311	1321	593	1300	1784	760	816		11590	5662
STAPLE+TOW-RAYON	309.4222	1019	1907	1702	1468	2682	2250	1615	2034	2492	2145	1138		20452	32119
STAPLE-ACETATE	309.4219	89	66	309	329	146	97	209	126	374	318	368		2431	1602
SUBTOTAL ABOVE		1108	1973	2011	1797	2828	2347	1824	2160	2866	2463	1506		22883	33721
WASTE, ADVANCED & NOT ADVANCED	309.7400	143	251	198	86	263	42	432	235	80	97	50		1877	1049
NONCELLULOSIC FIBER															
YARN - SINGLES															
NYLON - TEXTURED	310.0005 & .0007	3651	4775	4929	3355	4209	4685	5391	3916	5626	5748	4030		50315	31355
- HIGH TENACITY [c]	310.0027	8372	8470	8040	6580	6438	6533	8344	4836	10656	7160	6374		81803	72432
- OTHER	310.0029	786	1111	904	1188	1068	819	1072	978	841	1147	973		10885	8405
POLYESTER - TEXTURED	310.0010	1739	2796	3405	2979	3311	2690	2371	5279	4051	2877	4547		36045	23506
- HIGH TENACITY [c]	310.0032	1421	1817	2189	2281	2706	2059	2534	2410	3092	2550	2235		25294	23345
- OTHER [d]	310.0034	207	225	265	284	135	68	239	134	55	278	921		2811	1630
OTHER - TEXTURED	310.0014	1067	1904	2220	1725	2118	1459	1720	1640	1879	2382	1825		19939	16187
- OLEFIN	310.0040	83	626	121	143	161	160	258	322	330	187	383		2774	717
- OTHER	310.0044	360	729	886	802	688	699	507	468	381	438	541		6499	6182
MONOFILAMENTS, ALL DENIERS															
NYLON	309.0120	658	728	515	983	523	623	289	649	399	488	289		6144	6304
POLYESTER	309.0140	1641	1789	2345	1784	1871	1713	1992	1990	1345	1514	1650		19634	11390
OTHER	309.0170	680	901	768	769	847	603	553	705	754	964	630		8174	6776
STRIPS	309.2220 & .2270	415	192	277	442	454	394	346	377	340	195	507		3939	4349
SUBTOTAL ABOVE		21080	26063	26864	23313	24529	22505	25616	23704	29749	25928	24905		274256	212578
STAPLE - NYLON	309.4240	2423	1511	1760	981	1387	1491	1575	2125	2280	1867	1725		19125	20858
- POLYESTER	309.4242	13519	7586	10316	10132	11435	11625	13750	11140	12917	16383	12602		131405	156851
- ACRYLIC	309.4245	17224	11389	16118	7723	12187	4510	8350	11085	13735	10212	10364		122897	57091
- OLEFIN	309.4246	1488	1604	2696	2137	1784	1876	1683	561	1102	1341	1312		17584	19569
- OTHER	309.4247	1228	1696	3193	1951	2312	2229	1358	2437	2178	2065	1988		22635	33266
GROUPED FILAMENTS															
NYLON	309.3220	693	497	469	339	601	746	639	761	632	725	389		6491	5070
POLYESTER [d]	309.3240	2108	1330	2067	794	2046	1953	1230	1764	1740	1953	1746		18731	18618
ACRYLIC	309.3250 & .3255	4967	2172	3809	2267	3498	2338	3049	1753	2746	3452	1510		31561	23102
SUBTOTAL ABOVE		43650	27785	40428	26324	35250	26768	31634	31626	37330	37998	31636		370429	334425
WASTE, ADVANCED & NOT ADVANCED															
- NYLON	309.7620	685	1210	1189	1492	1287	2199	1489	1661	1596	1252	3185		17245	10598
- POLYESTER	309.7630	3959	4435	6616	4231	4813	5219	3829	6994	6607	4901	6127		57731	51900
- ACRYLIC	309.7640	312	1219	923	676	970	795	671	597	620	607	529		7919	8646
- OTHER	309.7660	3765	3582	3138	3474	3605	3309	3019	3970	4094	6985	5087		44028	33040
SUBTOTAL ABOVE		8721	10446	11866	9873	10675	11522	9008	13222	12917	13745	14928		126923	104184
TOTAL MANUFACTURED ABOVE		75501	67570	81934	62680	74856	64505	69107	72247	84726	80991	73841		807958	691619
GLASS FIBER	309.2700 & .9700	8813	9352	9114	8934	7139	8164	9712	9075	8429	9290	8716		96738	77468
GRAND TOTAL ABOVE		84314	76922	91048	71614	81995	72669	78819	81322	93155	90281	82557		904696	769087

SOURCE: U.S. Census Bureau Report EM522.

a. Includes singles and plied yarn.

b. Includes an undetermined amount of rayon tire cord.

c. Includes a undetermined amount of noncellulosic tire cord.

d. Includes zero twist yarns.

e. These data are obviously incorrect because of misclassification. Most of these poundages should be included with filament yarn.

TABLE 12:
1987 MANUFACTURED FIBER PRODUCTION, IMPORT, EXPORT & NET AVAILABLE SUPPLY BY COUNTRY EXCEPT OLEFIN & GLASS FIBER

MILLION POUNDS

	CELLULOSIC								NONCELLULOSIC								TOTAL MANUFACTURED FIBERS					
	YARN				STAPLE+TOW				YARN				STAPLE+TOW							CELL	NC	NET
COUNTRY & AREA	PROD	IMP	EXP	AVAIL	PROD	IMP	EXP	AVAIL	PROD	IMP	EXP	AVAIL	PROD	IMP	EXP	AVAIL	PROD	IMP	EXP	SPUN	SPUN	AVAIL
WESTERN EUROPE																						
AUSTRIA	NA	11.6	0.1	NA	NA	8.9	132.4	NA	0	44.5	6.5	38.0	31.1	46.4	41.0	36.5	295.7	111.4	180.0	-43.7	-18.7	164.7
BENELUX	NA	27.2	80.7	NA	NA	95.7	8.6	NA	163.1	335.4	270.8	227.7	72.8	262.0	129.1	205.7	324.1	720.3	489.2	+20.5	+49.9	625.6
FINLAND	NA	1.6	+	NA	NA	7.1	112.1	NA	1.1	25.5	0.2	26.4	0	34.7	0.1	34.6	120.1	68.9	112.4	+1.4	+9.7	87.7
FRANCE	NA	55.0	24.3	NA	NA	50.9	37.3	NA	114.6	200.8	122.2	193.2	235.9	259.4	155.9	339.4	401.2	566.1	339.7	+19.9	+35.4	682.9
GERMANY, FED. REP.	NA	47.6	69.5	NA	NA	94.4	86.2	NA	783.3	201.7	614.6	370.4	901.0	309.9	828.8	382.1	1944.4	653.6	1599.1	+2.4	-17.0	984.3
GREECE	NA	0.7	10.0	NA	NA	17.8	0.1	NA	17.6	13.3	10.8	20.1	22.0	46.1	13.0	55.1	56.8	77.9	33.9	-1.6	+26.9	126.1
IRELAND	0	1.1	0.1	1.0	0	7.4	0.2	7.2	26.5	21.1	46.2	1.4	138.9	12.6	90.5	61.0	165.4	42.2	137.0	+2.3	+4.2	77.1
ITALY/MALTA	NA	54.1	12.9	NA	NA	105.0	3.8	NA	377.0	180.9	248.3	309.6	866.4	373.8	593.7	646.5	1307.8	713.8	858.7	+11.8	-101.8	1072.9
NORWAY	NA	0.3	+	NA	0	5.0	0.2	4.8	0	10.5	2.2	8.3	0	8.5	0.3	8.2	0	24.3	2.7	+0.3	+2.4	24.3
PORTUGAL	NA	5.5	1.0	NA	NA	19.0	0.7	NA	0	55.1	4.1	51.0	133.4	37.3	8.3	162.4	136.0	116.9	14.1	-0.5	+7.7	246.0
SPAIN	NA	15.8	5.9	NA	NA	33.6	16.2	NA	174.6	60.4	27.0	208.0	405.2	154.0	193.4	365.8	659.2	263.8	242.5	-0.5	-26.9	653.1
SWEDEN	NA	3.5	0.9	NA	NA	8.9	40.2	NA	0	30.5	0.9	29.6	0	31.8	0.7	31.1	50.7	74.7	42.7	+0.9	+8.8	92.4
SWITZERLAND	0	4.0	1.5	2.5	0	18.2	0.1	18.1	149.5	20.4	156.9	13.0	48.7	29.6	73.9	4.4	198.2	72.2	232.4	-2.1	+1.8	37.7
TURKEY	NA	0.5	0.1	NA	NA	0.1	0.4	NA	160.9	80.6	32.3	209.2	412.3	57.4	77.5	392.2	590.8	138.6	110.3	-1.5	-37.7	579.9
UNITED KINGDOM	NA	25.9	30.6	NA	NA	64.7	93.3	NA	179.5	289.5	106.8	362.2	268.1	269.3	99.0	438.4	568.9	649.4	329.7	+4.9	+87.1	980.6
TOTAL WESTERN EUROPE	410.5	254.4	237.6	427.3	725.3	536.7	531.8	730.2	2147.7	1570.2	1649.8	2068.1	3535.8	1932.8	2305.2	3163.4	6819.3	4294.1	4724.4	+14.5	+31.8	6435.3
EASTERN EUROPE																						
ALBANIA	0	0	0	0	0	0	0	0	1.1	0.1	0	1.2	0	0.1	0	0.1	1.1	0.2	0	0	0	1.3
BULGARIA	9.5	0	0	9.5	84.7	0.6	3.9	81.4	86.2	3.5	+	89.7	96.3	8.5	0.9	103.9	276.7	12.6	4.8	+	0	284.5
CZECHOSLOVAKIA	47.2	0.1	0.7	46.6	90.4	+	2.2	88.2	175.5	7.0	12.5	170.0	115.3	6.1	3.1	118.3	428.4	13.2	18.5	+	+3.9	427.0
GERMANY, DEM. REP.	79.1	1.1	+	80.2	204.1	0.6	18.5	186.2	171.7	1.9	3.8	169.8	182.3	7.4	9.0	180.7	637.2	11.0	31.3	+2.7	+12.3	631.9
HUNGARY	0	0.9	0.1	0.8	12.3	0.6	5.3	7.6	15.0	16.9	1.3	30.6	37.3	14.6	0.3	51.6	64.6	33.0	7.0	-0.1	+0.3	90.8
POLAND	41.9	+	+	41.9	118.6	1.4	0.4	119.6	191.8	10.2	1.3	200.7	141.3	24.9	2.5	163.7	493.6	36.5	4.2	+	+1.5	527.4
ROMANIA	19.8	0	0.1	19.7	125.7	0	10.4	115.3	131.2	0.2	5.3	126.1	313.9	0.1	36.9	277.1	590.6	0.3	52.7	-0.1	-7.5	530.6
U.S.S.R.	543.4	11.2	0.2	554.4	760.6	17.0	0.1	777.5	959.0	55.9	0.2	1014.7	884.0	48.1	7.9	924.2	3147.0	132.2	8.4	+	+10.2	3281.0
YUGOSLAVIA	29.3	0.2	2.3	27.2	110.2	0.3	19.8	90.7	97.0	19.4	10.2	106.2	140.9	10.2	52.6	98.5	377.4	30.1	84.9	-10.0	-1.5	311.1
TOTAL EASTERN EUROPE	770.2	13.5	3.4	780.3	1506.6	20.5	60.6	1466.5	1828.5	115.1	34.6	1909.0	1911.3	120.0	113.2	1918.1	6016.6	269.1	211.8	-7.5	+19.2	6085.6
TOTAL EUROPE	1180.7	267.9	241.0	1207.6	2231.9	557.2	592.4	2196.7	3976.2	1685.3	1684.4	3977.1	5447.1	2052.8	2418.4	5081.5	12835.9	4563.2	4936.2	+7.0	+51.0	12520.9
U.S.A.	191.1	12.8	6.4	197.5	414.3	13.8	34.5	393.6	2875.9	117.1	222.9	2770.1	3945.7	194.2	344.5	3795.4	7427.0	337.9	608.3	+0.7	-3.6	7153.7
OTHER AMERICAS																						
ARGENTINA	6.6	+	0	6.6	7.3	0.1	0	7.4	62.6	0.8	0.2	63.2	64.8	4.0	0	68.8	141.3	4.9	0.2	0	0	146.0
BOLIVIA	0	0.1	0	0.1	0	0	0	0	0	0.4	0	0.4	0	4.8	0	4.8	0	5.3	0	0	0	5.3
BRAZIL	33.1	1.6	4.0	30.7	74.7	3.3	13.7	64.3	300.3	3.6	2.0	301.9	246.5	1.2	6.4	241.3	654.6	9.7	26.1	+	-15.8	622.4
CANADA	18.7	25.4	17.1	27.0	62.8	4.5	44.0	23.3	157.6	143.1	47.2	253.5	128.3	101.3	18.1	211.5	367.4	274.3	126.4	+0.6	+35.3	551.2
CHILE	2.9	+	0.1	2.8	8.8	3.4	0	12.2	9.7	1.0	0	10.7	6.0	44.6	0	50.6	27.4	49.0	0.1	0	+0.4	76.7
COLOMBIA	4.2	0.1	0	4.3	0	4.6	0	4.6	88.0	1.8	0	89.8	20.9	25.6	0	46.5	113.1	32.1	0	0	0	145.2
COSTA RICA	0	0	0	0	0	+	0	+	9.0	4.5	8.4	5.1	0	3.0	0.1	2.9	9.0	7.5	8.5	0	+0.1	8.1
CUBA	6.0	0	0.1	5.9	19.4	0	0	19.4	0	0.5	0	0.5	0	0	0	0	25.4	0.5	0.1	0	0	25.8
ECUADOR	0	0.2	0	0.2	0	1.7	0	1.7	13.2	2.0	0	15.2	0	16.0	0	16.0	13.2	19.9	0	0	0	33.1
MEXICO	27.1	+	1.5	25.6	0	18.3	+	18.3	326.7	3.8	64.4	266.1	414.0	22.9	58.2	378.7	767.8	45.0	124.1	0	-20.6	668.1
PERU	3.7	+	0	3.7	0	0.4	0	0.4	26.2	2.3	0.4	28.1	74.7	0.6	0	75.3	104.6	3.3	0.4	0	+	107.5
URUGUAY	2.6	0.2	+	2.8	0	5.6	0	5.6	4.4	0.2	0	4.6	7.5	5.2	3.7	9.0	14.5	11.2	3.7	0	0	22.0
VENZUELA	4.9	+	0	4.9	0	21.2	+	21.2	37.0	2.8	0	39.8	14.8	10.0	0	24.8	56.7	34.0	+	0	0	90.7
TOTAL OTHER AMERICAS	109.8	27.6	22.8	114.6	173.0	63.1	57.7	178.4	1034.7	166.8	122.6	1078.9	977.5	239.2	86.5	1130.2	2295.0	496.7	289.6	+0.6	-0.6	2502.1

TABLE 12:
1987 MANUFACTURED FIBER PRODUCTION, IMPORT, EXPORT & NET AVAILABLE SUPPLY BY COUNTRY EXCEPT OLEFIN & GLASS FIBER *(CONTINUED)*

MILLION POUNDS

COUNTRY & AREA	CELLULOSIC								NONCELLULOSIC								TOTAL MANUFACTURED FIBERS					
	YARN				STAPLE+TOW				YARN				STAPLE+TOW							CELL	NC	NET
	PROD	IMP	EXP	AVAIL	PROD	IMP	EXP	AVAIL	PROD	IMP	EXP	AVAIL	PROD	IMP	EXP	AVAIL	PROD	IMP	EXP	SPUN	SPUN	AVAIL
JAPAN	219.1	2.6	88.4	133.3	443.3	0.5	200.4	243.4	1342.2	92.6	227.3	1207.5	1613.3	49.9	570.9	1092.3	3617.9	145.6	1087.0	-8.5	-63.6	2604.4
CHINA, PRC	154.3	44.1	0	198.4	308.6	246.9	0	555.5	593.0	178.6	0.5	771.1	1413.1	535.7	0.2	1948.6	2469.0	1005.3	0.7	-12.2	-26.8	3434.6
OTHER ASIA																						
BANGLADESH	10.6	0	0	10.6	2.9	5.1	0	8.0	1.1	1.1	0	2.2	0	1.8	0	1.8	14.6	8.0	0	0	0	22.6
INDIA	109.1	5.1	2.9	111.3	213.3	0.9	+	213.2	312.2	26.6	0.2	338.6	199.1	18.9	0.2	217.8	832.7	51.5	3.3	+	-1.8	879.1
INDONESIA	0	20.5	+	20.5	91.5	3.6	0	95.1	191.8	30.9	4.0	218.7	187.2	62.2	0	249.4	470.5	117.2	4.0	-1.2	-2.9	579.6
KOREA, REP. OF	30.9	31.5	6.1	56.3	0	72.9	0.3	72.6	1055.3	42.8	101.1	997.0	1081.6	124.4	182.8	1023.2	2167.8	271.6	290.3	+6.8	-10.7	2145.2
MALAYSIA	0	0.4	+	0.4	0	9.7	+	9.7	0	1.2	0.7	0.5	85.8	20.2	0.6	105.4	85.8	31.5	1.3	-0.6	-5.7	109.7
PAKISTAN	7.1	5.0	0.1	12.0	0	19.8	+	19.8	61.3	18.2	0.2	79.3	56.0	24.7	0.1	80.6	124.4	67.7	0.4	+0.1	-4.7	187.1
PHILIPPINES	0	0.3	0	0.3	0	46.0	0	46.0	47.4	10.2	+	57.6	28.0	32.4	0.1	60.3	75.4	88.9	0.1	+	-0.5	163.7
SRI LANKA	0	+	0	+	0	3.1	0	3.1	3.3	0.9	0	4.2	0	1.2	0	1.2	3.3	5.2	0	0	0	8.5
TAIWAN	5.3	4.8	3.7	6.4	258.4	17.9	13.6	262.7	1576.5	47.0	563.6	1059.9	1490.8	165.4	409.1	1247.1	3331.0	235.1	990.0	-3.5	-165.2	2407.4
THAILAND	0	0.4	+	0.4	47.2	0.8	0	48.0	113.1	4.9	1.6	116.4	148.1	24.3	0	172.4	308.4	30.4	1.6	-4.4	-3.0	329.8
TOTAL OTHER ASIA	163.0	68.0	12.8	218.2	612.3	179.8	13.9	778.2	3362.0	183.8	671.4	2874.4	3276.6	475.5	592.9	3159.2	7413.9	907.1	1291.0	-2.8	-194.5	6832.7
MIDDLE EAST, AFRICA & OCEANIA																						
AUSTRALIA/N.Z.	0	1.7	+	1.7	0	3.3	0.1	3.2	39.9	34.6	+	74.5	2.4	33.0	0.5	34.9	42.3	72.6	0.6	0	+12.1	126.4
EGYPT	15.4	0.3	+	15.7	10.6	0.1	2.1	8.6	15.2	9.6	0	24.8	70.8	2.1	24.8	48.1	112.0	12.1	26.9	+0.1	-10.5	86.8
IRAN	0	0.1	0	0.1	0	0.1	0	0.1	20.9	0.3	0	21.2	57.1	27.8	0.2	84.7	78.0	28.3	0.2	0	0	106.1
IRAQ	6.8	0.4	0	7.2	12.1	0.1	0	12.2	0	0.5	0	0.5	0	0.9	0	0.9	18.9	1.9	0	+0.2	0	21.0
ISRAEL	0	0.4	0.3	0.1	0	0.3	0	0.3	25.4	31.9	14.3	43.0	16.3	19.9	10.7	25.5	41.7	52.5	25.3	+0.6	+0.7	70.2
KENYA	0	0	0	0	0	2.5	0	2.5	11.0	0.2	0	11.2	2.4	6.3	0	8.7	13.4	9.0	0	+0.2	+	22.6
NIGERIA	0	0.2	0	0.2	0	2.9	0	2.9	8.8	2.0	0	10.8	6.8	14.2	0	21.0	15.6	19.3	0	0	+0.1	35.0
SOUTH AFRICA	0	0.3	+	0.3	0	1.6	0	1.6	125.2	14.4	8.4	131.2	65.9	56.6	0.2	122.3	191.1	72.9	8.6	+0.2	-1.1	254.5
TANZANIA	0	0	0	0	0	0	0	0	6.6	0.3	0	6.9	0	0.1	0	0.1	6.6	0.4	0	0	0	7.0
TOTAL M.E., A. & O.	22.2	3.4	0.3	25.3	22.7	10.9	2.2	31.4	253.0	93.8	22.7	324.1	221.7	160.9	36.4	346.2	519.6	269.0	61.6	+1.3	+1.3	729.6
TOTAL ALL COUNTRIES	2040.2	426.4	371.7	2094.9	4206.1	1072.2	901.1	4377.2	13437.0	2518.0	2951.8	13003.2	16895.0	3708.2	4049.8	16553.4	36578.3	7724.8	8274.4	-13.9	-236.8	35778.0

Explanation of this table can be found below.
NA Not Available.
\+ Less than 100 thousand pounds.

NET AVAILABLE SUPPLY

The 1987 by-country production, import, export and net available or retained supply of four categories of manufactured fiber are presented in millions of pounds in Table 12. The data in Table 12 exclude acetate cigarette tow and include imports and exports of tire cord and tire cord fabric.

"Net Available Supply" is defined as production plus imports less exports plus the balance of trade in spun yarn. Sometimes this is called **"apparent consumption"**. **"Yarn"** is defined to include tire cord and tire cord fabric, filament yarn and monofilaments. **"Staple"** is defined to include tow, fiberfill, tops and advanced waste. Unprocessed waste is not included.

Except for spun yarns, the imports and exports of manufactured and semimanufactured products (e.g., fabric, dresses, hosiery, etc.) are not included in the manufactured fiber data.

The spun yarn data are shown under the **"Total Manufactured Fiber"** columns in Table 12. Space does not permit the presentation of import and export data separately. These data may include some quantities of blending fibers other than manufactured fiber.

A net import quantity is shown in the **"spun"** column as (+); in other words, an addition to a country's net available supply, while conversally a net export is shown as (-). For example, the 1987 cellulosic spun net yarn figure for Japan is shown as -8.5, which consists of imports of 0.4 (+0.4) and exports of 8.5 (-8.5).

TABLE 13:
1987 MILL CONSUMPTION OF MANUFACTURED FIBER, COTTON & WOOL IN SELECTED COUNTRIES (EXCLUDING OLEFIN & GLASS FIBER)

MILLION POUNDS

COUNTRY	MANUFACTURED FIBER[a]	COTTON[b]	WOOL[c]	TOTAL
WESTERN EUROPE				
AUSTRIA	164.7	46.3	10.9	221.9
BELGIUM/NETHERLANDS	625.6	132.3	59.9	817.8
FINLAND	87.7	13.2	3.2	104.1
FRANCE	682.9	346.1	78.8	1107.8
GERMANY, FED. REP.	984.3	535.7	138.3	1658.3
GREECE	126.1	414.5	29.7	570.3
IRELAND	77.1	55.1	11.1	143.3
ITALY/MALTA	1072.9	683.4	309.1	2065.4
NORWAY	24.3	4.4	6.6	35.3
PORTUGAL	246.0	392.4	27.4	665.8
SPAIN	653.1	324.1	54.9	1032.1
SWEDEN	92.4	11.0	0.7	104.1
SWITZERLAND	37.7	145.5	22.2	205.4
TURKEY	579.9	1080.3	99.0	1759.2
UNITED KINGDOM	980.6	110.2	191.8	1282.6
TOTAL WESTERN EUROPE	**6435.3**	**4294.5**	**1043.6**	**11773.4**
EASTERN EUROPE				
ALBANIA	1.3	17.6	d	18.9
BULGARIA	284.5	119.0	34.6	438.1
CZECHOSLOVAKIA	427.0	299.8	49.1	775.9
GERMANY, DEM. REP.	631.9	220.5	40.7	893.1
HUNGARY	90.8	136.7	17.3	244.8
POLAND	527.4	350.5	53.8	931.7
ROMANIA	530.6	235.9	54.5	821.0
U.S.S.R.	3281.0	4572.3	700.2	8553.5
YUGOSLAVIA	311.1	253.5	63.1	627.7
TOTAL EASTERN EUROPE	**6085.6**	**6205.8**	**1013.3**	**13304.7**
TOTAL EUROPE	**12520.9**	**10500.3**	**2056.9**	**25078.1**
U.S.A.	**7153.7**	**3575.9**	**148.1**	**10877.7**
OTHER AMERICAS				
ARGENTINA	146.0	282.2	70.7	498.9
BOLIVIA	5.3	24.3	11.1	40.7
BRAZIL	622.4	1673.3	13.8	2309.5
CANADA	551.2	94.8	15.3	661.3
CHILE	76.7	28.7	13.6	119.0
COLUMBIA	145.2	180.8	9.3	335.3
COSTA RICA	8.1	4.4	d	12.5
CUBA	25.8	108.0	d	133.8
ECUADOR	33.1	28.7	d	61.8
MEXICO	668.1	264.6	12.7	945.4
PERU	107.5	176.4	9.4	293.3
URUGUAY	22.0	4.4	18.1	44.5
VENEZUELA	90.7	63.9	d	154.6
TOTAL OTHER AMERICAS	**2502.1**	**2934.5**	**174.0**	**5610.6**

TABLE 13:
1987 MILL CONSUMPTION OF MANUFACTURED FIBER, COTTON & WOOL IN SELECTED COUNTRIES *(CONTINUED)*

MILLION POUNDS

COUNTRY	MANUFACTURED FIBER[a]	COTTON[b]	WOOL[c]	TOTAL
JAPAN	**2604.4**	**1646.8**	**279.5**	**4530.7**
CHINA, PRC	**3434.6**	**9843.5**	**511.8**	**13789.9**
OTHER ASIA				
BANGLADESH	22.6	114.6	d	137.2
INDIA	879.1	3776.5	72.8	4728.4
INDONESIA	579.6	396.8	d	976.4
KOREA, REP. OF	2145.2	899.5	102.0	3146.7
MALAYSIA	109.7	70.5	d	180.2
PAKISTAN	187.1	1541.0	57.5	1785.6
PHILIPPINES	163.7	97.0	d	260.7
SRI LANKA	8.5	19.8	d	28.3
TAIWAN	2407.4	970.0	55.7	3433.1
THAILAND	329.8	584.2	d	914.0
TOTAL OTHER ASIA	**6832.7**	**8469.9**	**288.0**	**15590.6**
MIDDLE EAST, AFRICA & OCEANIA				
AUSTRALIA/NEW ZEALAND	126.4	48.5	99.3	274.2
EGYPT	86.8	665.8	12.5	765.1
IRAN	106.1	253.5	40.6	400.2
IRAQ	21.0	59.5	17.8	98.3
ISRAEL	70.2	35.3	2.9	108.4
KENYA	22.6	26.5	0.0	49.1
NIGERIA	35.0	99.2	0.0	134.2
SOUTH AFRICA	254.5	169.8	29.8	454.1
TANZANIA	7.0	30.9	0.0	37.9
TOTAL M.E., A. & O.	**729.6**	**1389.0**	**202.9**	**2321.5**
TOTAL ALL COUNTRIES	**35778.0**	**38359.9**	**3661.2**	**77799.1**

a. Manufactured fiber data are from Table 12, pages 14 & 15, this issue. The data show the manufactured net available supply, which approximates mill consumptions.

b. **Source**: *International Cotton Advisory Committee, October 1988 issue.* Cotton refers to ginned raw cotton. It does not refer to waste or cotton fibers subjected to any other process. Data are for the cotton year ending July 31, 1987.

c. **Source:** *Commonwealth Secretariat.* Wool refers to virgin wool, clean basis, at the spinning stage.

d. Represents minimal quantity, with exact amount not reported.

TABLE 14:
SELECTED U.S. ANNUAL FIBER DATA
MILLION POUNDS

ITEM	1982	1983	1984	1985	1986	1987	1988
	MANUFACTURED FIBER TOTAL SHIPMENTS [a] [b]						
CELLULOSIC							
YARN	198.8	225.8	198.3	210.1	212.3	191.7	216.7
RAYON STAPLE	360.2	377.4	384.0	358.7	403.8	415.5	406.5
TOTAL CELLULOSIC	**559.0**	**603.2**	**582.3**	**568.8**	**616.1**	**607.2**	**623.2**
NONCELLULOSIC							
YARN+MONOFILAMENTS							
NYLON[c] - INDUSTRIAL[d]	324.5	318.1	375.1	345.1	333.4	373.4	375.2
- CARPET	582.1	762.6	794.9	835.4	898.5	941.6	976.2
- TEXTILE[e]	361.1	416.9	387.4	355.3	360.5	378.8	386.9
POLYESTER - INDUSTRIAL[d]	288.0	307.8	313.1	292.1	313.9	338.8	358.7
- TEXTILE[e]	949.5	1053.1	885.0	1020.4	855.8	841.5	871.9
OLEFIN[f]	592.3	714.2	742.1	951.1	1059.7	1143.8	1191.3
TOTAL YARN	**3097.5**	**3572.7**	**3497.6**	**3799.4**	**3821.8**	**4017.9**	**4160.2**
STAPLE+TOW+FIBERFILL							
NYLON	689.9	911.2	831.3	843.6	908.2	985.5	963.9
ACRYLIC+MODACRYLIC	632.2	654.7	666.2	643.8	614.1	594.4	590.2
POLYESTER	1941.6	2197.8	2192.4	2038.6	2123.4	2369.2	2449.1
OLEFIN[g]	143.8	189.7	246.7	288.2	331.5	363.9	363.7
TOTAL STAPLE	**3407.5**	**3953.4**	**3936.6**	**3814.2**	**3977.2**	**4313.0**	**4366.9**
TOTAL NONCELLULOSIC	**6505.0**	**7526.1**	**7434.2**	**7613.6**	**7799.0**	**8330.9**	**8527.1**
TOTAL MANUFACTURED FIBER	**7064.0**	**8129.3**	**8016.5**	**8182.4**	**8415.1**	**8938.1**	**9150.3**
	MANUFACTURED FIBER YEAR END STOCK						
CELLULOSIC							
YARN	10.7	12.5	12.4	12.3	14.8	14.2	11.4
RAYON STAPLE	25.9	23.3	28.5	22.5	22.4	20.7	14.0
TOTAL CELLULOSIC	**36.6**	**35.8**	**40.9**	**34.8**	**37.2**	**34.9**	**25.4**
NONCELLULOSIC							
YARN+MONOFILAMENTS							
NYLON[c] - INDUSTRIAL[d]	27.0	23.8	27.4	25.5	30.8	20.9	22.3
- CARPET	54.8	54.0	63.0	46.4	54.7	65.4	57.3
- TEXTILE[e]	44.4	43.0	50.3	47.8	47.3	49.9	45.5
POLYESTER - INDUSTRIAL[d]	27.2	18.7	22.1	24.2	29.4	27.8	35.0
- TEXTILE[e]	71.8	78.9	77.4	83.7	81.5	81.5	70.9
OLEFIN[f]	54.6	56.5	61.5	64.9	62.9	52.9	53.1
TOTAL YARN	**279.8**	**274.9**	**301.7**	**292.5**	**306.6**	**298.4**	**284.1**
STAPLE+TOW+FIBERFILL							
NYLON	59.9	75.1	78.6	62.7	62.8	69.7	44.4
ACRYLIC+MODACRYLIC	57.0	72.8	77.4	64.4	66.2	63.3	61.2
POLYESTER	187.8	174.1	173.5	155.0	163.9	156.5	159.4
OLEFIN[g]	20.1	20.0	23.2	29.7	33.5	30.1	30.3
TOTAL STAPLE	**324.8**	**342.0**	**352.7**	**311.8**	**326.4**	**319.6**	**295.3**
TOTAL NONCELLULOSIC	**604.6**	**616.3**	**654.4**	**604.3**	**633.0**	**618.0**	**579.4**
TOTAL MANUFACTURED FIBER	**641.2**	**652.7**	**695.3**	**639.1**	**670.2**	**652.9**	**604.8**

a. The annual production of each fiber may be calculated as total shipments plus a stock increase or less a stock decrease from the previous year.
b. Producers' total domestic shipments plus export shipments.
c. 1982 data include Aramid.
d. Industrial is defined as 500 denier and coarser with an Instron tenacity of 7 grams or more per denier.
e. Includes low denier industrial yarn.
f. Olefin yarn+monofilaments also includes spunbonded polypropylene and film fiber produced for textile end uses.
g. Includes Vinyon until 1987.

TABLE 15:
SELECTED U.S. MONTHLY FIBER DATA

MILLION POUNDS

ITEM	1988 JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR TO DATE[a] 1988	1987
MANUFACTURED FIBER TOTAL SHIPMENTS[b,c]														
CELLULOSIC														
YARN	15.9	16.1	18.1	19.4	18.3	17.5	19.1	18.6	18.1	18.6	17.0	20.0	216.7	191.7
RAYON STAPLE	32.6	35.9	38.5	35.5	36.4	36.2	29.1	36.1	34.3	34.8	29.1	28.0	406.5	415.5
TOTAL CELLULOSIC	**48.5**	**52.0**	**56.6**	**54.9**	**54.7**	**53.7**	**48.2**	**54.7**	**52.4**	**53.4**	**46.1**	**48.0**	**623.2**	**607.2**
NONCELLULOSIC														
YARN+MONOFILAMENTS														
NYLON - INDUSTRIAL[d]	27.5	32.1	34.8	32.2	30.8	32.4	32.4	28.8	29.2	29.9	33.7	31.4	375.2	373.4
- CARPET	72.6	80.7	84.6	80.7	81.9	79.3	73.7	89.4	87.1	87.8	82.2	76.2	976.2	941.6
- TEXTILE[f]	30.0	31.2	33.9	31.7	32.0	32.5	27.7	32.3	32.0	32.9	34.0	36.7	386.9	378.8
POLYESTER - INDUSTRIAL[d]	26.5	29.3	30.7	31.3	29.4	32.3	29.3	29.0	29.5	31.4	28.7	31.3	358.7	338.8
- TEXTILE[f]	62.9	68.4	67.7	74.3	71.9	70.5	70.2	66.7	69.1	77.7	79.0	93.5	871.9	841.5
OLEFIN[e]	97.2	101.4	102.4	102.7	102.9	102.8	89.0	99.6	105.1	99.6	95.6	93.0	1191.3	1143.8
TOTAL YARN	**316.7**	**343.1**	**354.1**	**352.9**	**348.9**	**349.8**	**322.3**	**345.8**	**352.0**	**359.3**	**353.2**	**362.1**	**4160.2**	**4017.9**
STAPLE+TOW+FIBERFILL														
NYLON	78.4	81.7	83.6	71.0	77.9	79.3	75.0	90.2	81.3	89.6	77.9	78.0	963.9	985.5
ACRYLIC+MODACRYLIC	48.5	52.8	55.4	45.4	45.6	47.4	42.1	53.2	51.8	48.8	50.1	49.1	590.2	594.4
POLYESTER	190.4	200.4	195.3	212.1	195.8	195.7	190.9	195.7	203.1	228.3	209.0	232.4	2449.1	2369.2
OLEFIN	29.1	29.6	30.7	29.8	31.2	32.4	26.9	32.1	30.2	29.2	33.0	29.5	363.7	363.9
TOTAL STAPLE	**346.4**	**364.5**	**365.0**	**358.3**	**350.5**	**354.8**	**334.9**	**371.2**	**366.4**	**395.9**	**370.0**	**389.0**	**4366.9**	**4313.0**
TOTAL NONCELLULOSIC	**663.1**	**707.6**	**719.1**	**711.2**	**699.4**	**704.6**	**657.2**	**717.0**	**718.4**	**755.2**	**723.2**	**751.1**	**8527.1**	**8330.9**
TOTAL FIBER	**711.6**	**759.6**	**775.7**	**766.1**	**754.1**	**758.3**	**705.4**	**771.7**	**770.8**	**808.6**	**769.3**	**799.1**	**9150.3**	**8938.1**
MANUFACTURED FIBER END OF MONTH STOCK														
CELLULOSIC														
YARN	12.3	13.3	13.2	14.0	12.8	12.4	13.4	11.6	11.5	12.3	11.2	11.4	11.4	14.2
RAYON STAPLE	23.5	22.5	20.3	18.0	16.5	13.4	15.5	13.7	13.3	12.6	12.5	14.0	14.0	20.7
TOTAL CELLULOSIC	**35.8**	**35.8**	**33.5**	**32.0**	**29.3**	**25.8**	**28.9**	**25.3**	**24.8**	**24.9**	**23.7**	**25.4**	**25.4**	**34.9**
NONCELLULOSIC														
YARN+MONOFILAMENTS														
NYLON - INDUSTRIAL[d]	26.6	25.7	23.5	23.3	25.2	24.7	28.1	30.4	30.5	28.6	23.6	22.3	22.3	20.9
- CARPET	72.0	66.5	67.0	67.1	70.2	71.9	78.0	61.9	58.1	53.3	56.0	57.3	57.3	65.4
- TEXTILE[f]	54.6	53.1	50.0	49.7	51.2	50.4	55.3	55.2	54.6	52.9	50.1	45.5	45.5	49.9
POLYESTER - INDUSTRIAL[d]	29.8	29.2	28.8	29.6	30.5	29.2	33.3	32.4	31.4	30.7	30.1	35.0	35.0	27.8
- TEXTILE[f]	82.5	81.5	79.5	77.3	79.7	82.9	94.4	94.4	90.4	90.0	84.1	70.9	70.9	81.5
OLEFIN[e]	54.4	55.0	53.5	54.1	54.5	54.0	55.3	53.7	52.0	50.6	53.1	53.1	53.1	52.9
TOTAL YARN	**319.9**	**311.0**	**302.3**	**301.1**	**311.3**	**313.1**	**344.4**	**328.0**	**317.0**	**306.1**	**297.0**	**284.1**	**284.1**	**298.4**
STAPLE+TOW+FIBERFILL														
NYLON	63.4	64.7	57.5	64.4	60.5	65.2	66.5	60.6	45.3	39.9	46.7	44.4	44.4	69.7
ACRYLIC+MODACRYLIC	62.4	58.8	55.4	57.9	63.7	67.9	72.8	67.3	62.3	63.1	61.1	61.2	61.2	63.3
POLYESTER	173.7	168.3	157.8	161.8	167.4	173.7	205.7	194.9	188.6	177.5	159.9	159.4	159.4	156.5
OLEFIN	32.5	33.7	35.0	35.8	37.8	36.1	38.5	38.4	32.8	34.1	30.8	30.3	30.3	30.1
TOTAL STAPLE	**332.0**	**325.5**	**305.7**	**319.9**	**329.4**	**342.9**	**383.5**	**361.2**	**329.0**	**314.6**	**298.5**	**295.3**	**295.3**	**319.6**
TOTAL NONCELLULOSIC	**651.9**	**636.5**	**608.0**	**621.0**	**640.7**	**656.0**	**727.9**	**689.2**	**646.0**	**620.7**	**595.5**	**579.4**	**579.4**	**618.0**
TOTAL FIBER	**687.7**	**672.3**	**641.5**	**653.0**	**670.0**	**681.8**	**756.8**	**714.5**	**670.8**	**645.6**	**619.2**	**604.8**	**604.8**	**652.9**
WOOL & COTTON CONSUMPTION														
APPAREL CLASS WOOL	12.9	11.7	14.1	11.3	11.5	13.5	11.6	9.5	10.4	12.4			118.9	130.2
CARPET CLASS WOOL	1.4	1.5	1.6	1.4	1.4	1.1	1.1	1.4	1.5	1.8			14.2	11.5
TOTAL RAW WOOL	14.3	13.2	15.7	12.7	12.9	14.6	12.7	10.9	11.9	14.2			133.1	141.7
RAW COTTON	300.0	311.4	339.3	278.0	302.6	297.4	226.4	239.7	307.4	272.6			2874.8	3140.7

a. "Year to date" totals for stock, are the latest month's figures.
b. The monthly production of each fiber may be calculated as total shipments plus a stock increase, or less a stock decrease, over the month.
c. Producers' total domestic shipments plus export shipments.
d. Industrial is defined as 500 denier and coarser with an Instron tenacity of 7 grams or more per denier.
e. Olefin yarn+monofilaments also includes spunbonded polypropylene and film fiber produced for textile end uses.
f. Includes low denier industrial yarn.

DATA POWER

Improve your sales and profits by learning more about what is happening to the size of the markets which you serve. What are the trends in industry shipments, capacity and inventory levels? Which end use markets are growing and which are shrinking? Compare your own figures with industry data to see whether you are gaining or losing share in your markets. That's what we mean by Data Power.

There is only one official and authoritative source for manufactured fiber data in the United States. That's the **Man-Made Fiber Producers' Handbook.** No other publication anywhere provides industry data compiled directly from confidential reports submitted by the fiber producers themselves.

You get complete coverage of this key U.S. industry: capacity, production, inventory, import and export data, provided by fiber type and updated monthly, quarterly and annually.

Monthly results are available to you by the tenth of the following month, and quarterly results six weeks after the close of the quarter. You may obtain the monthly data from our special phone system at no extra charge.

The **Man-Made Fiber Producers' Handbook...**the **complete** official source for the manufactured fiber industry. Examine the listing below and you'll see how Data Power can work for you.

Features Yarn+Monofilament and Staple+Tow Data for:

- Rayon Staple
- Cellulosic Yarn
- Nylon
- Polyester
- Acrylic+Modacrylic
- Olefin

With Additional Data for:

- Glass Fiber
- Olefin Yarn, Monofilament & Film Fiber
- Civil Engineering Fabric

Covering All Noncellulosic and Cellulosic Fibers:

Monthly

- Production
- Domestic Shipments
- Exports
- Inventories
- Industrial Yarn
- Carpet Yarn
- Textile Yarn
- Flat Yarn
- Feed & Producer Textured Yarn
- Shipments by Denier
- Indirect Exports

Quarterly

- Production
- Domestic Shipments
- Imports
- Exports
- Shipments by Denier
- Inventories
- Primary End Use
- Secondary End Use
- Waste Shipments
- Civil Engineering Fabric Shipments

Semiannually & Annually

- Capacities
- Primary End Use Summaries
- Secondary End Use Summaries
- Waste Shipment Summaries
- Imports
- Exports
- Glass Fiber Shipments by State

MAN-MADE FIBER PRODUCERS' HANDBOOK